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Time Remaining: 44/45 (Minutes)

Q.1

Test 2 Unit 2 Bioenergetics A

Biology Unit Wise

Which of the following statements about photosynthesis is wrong?

- (a) Carbon dioxide molecules are bound into carbohydrates during the second half of the process
- (b) It is a catabolic process that releases the energy stored in glucose molecules
- (c) Oxygen is released as a waste product
- May occur in both prokaryotic and eukaryotic cells

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Correct Answer:

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Next



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Time Remaining: 44/45 (Minutes)

Q.2

Test 2 Unit 2 Bioenergetics A

Biology Unit Wise

How does photosynthesis occur?

- (a) Glucose is broken down into carbon dioxide using the energy of the sun
- (b) The products of the light reaction are used to create glucose from carbon dioxide
- (c) The sunlight directly powers ATP synthase, which catalyzes the creation of glucose
- (d) The electrons from metals are used for chemiosmosis

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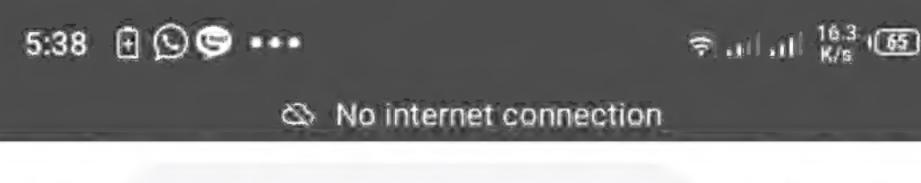
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Correct Answer:

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Time Remaining: 44/45 (Minutes)

Q.3

Test 2 Unit 2 Bioenergetics A

Biology Unit Wise

NADPH and ATP, formed during light reaction of photosynthesis have:

- (a) Assimilating & reducing power respectively
- (b) Reducing & assimilating power respectively
- (c) Oxidizing & reducing power respectively
- (d) Reducing & oxidizing power respectively

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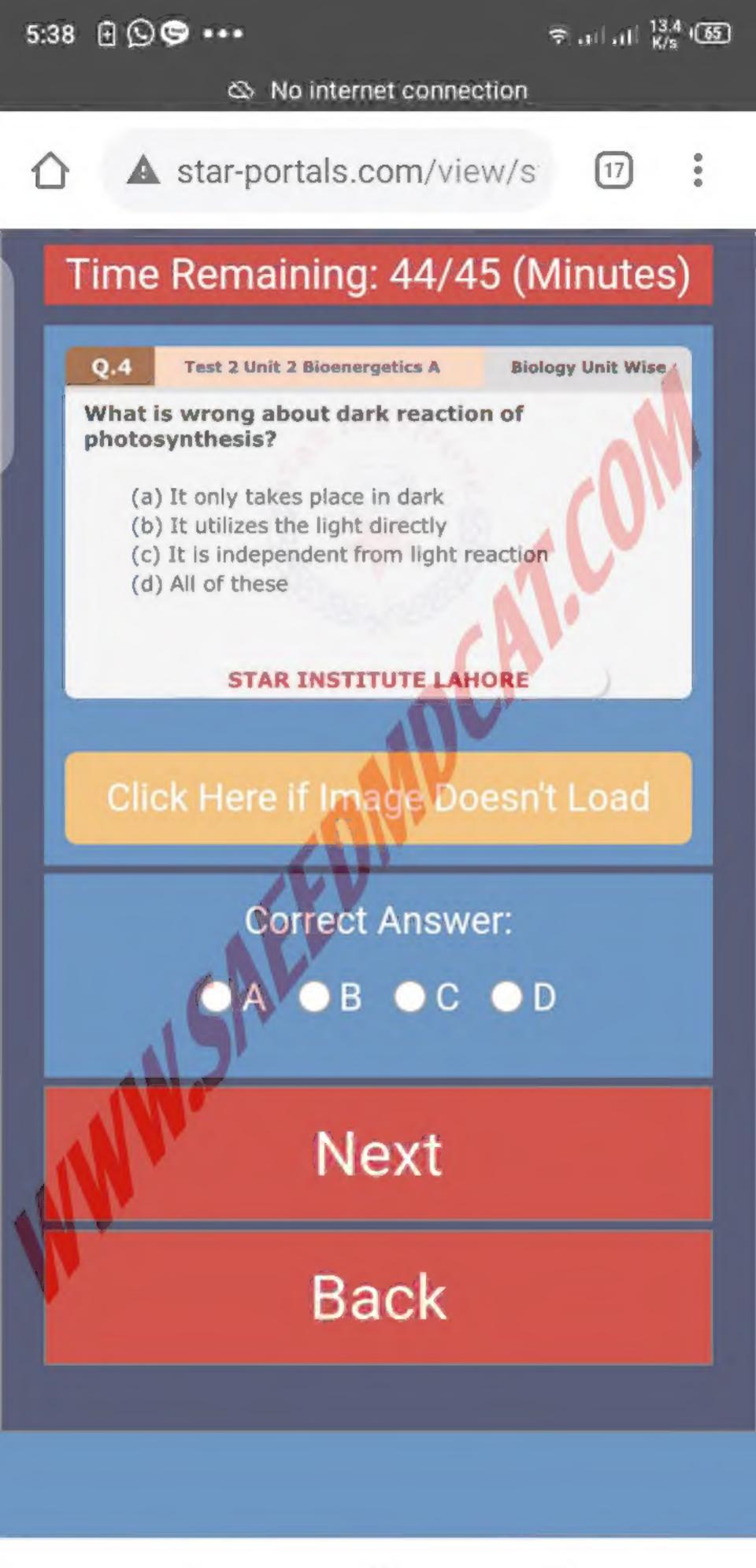
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Correct Answer:

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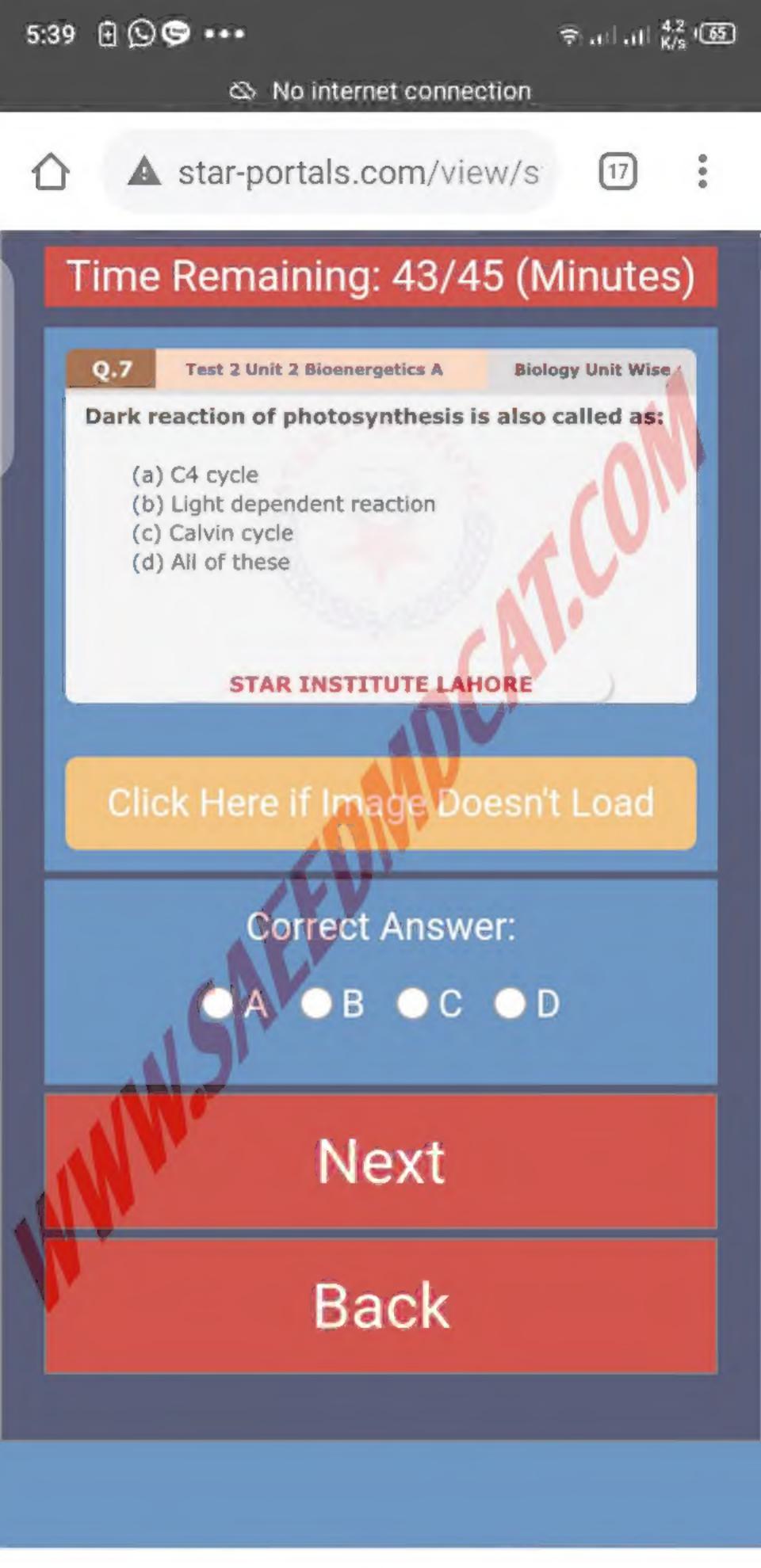
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Time Remaining: 43/45 (Minutes)

Q.8

Test 2 Unit 2 Bioenergetics A

Biology Unit Wise

Unidirectional flow of e in non-cyclic photophosphorylation is:

- (a) PS II $\stackrel{e^-}{\longrightarrow}$ PS I $\stackrel{e^-}{\longrightarrow}$ NADP $\stackrel{e^-}{\longrightarrow}$ water
- (b) Water

 PSII

 PS I

 NADP
- (c) PS I $\xrightarrow{e^-}$ NADP $\xrightarrow{e^-}$ water $\xrightarrow{e^-}$ PS II
- (d) Water PS I PS II NADP

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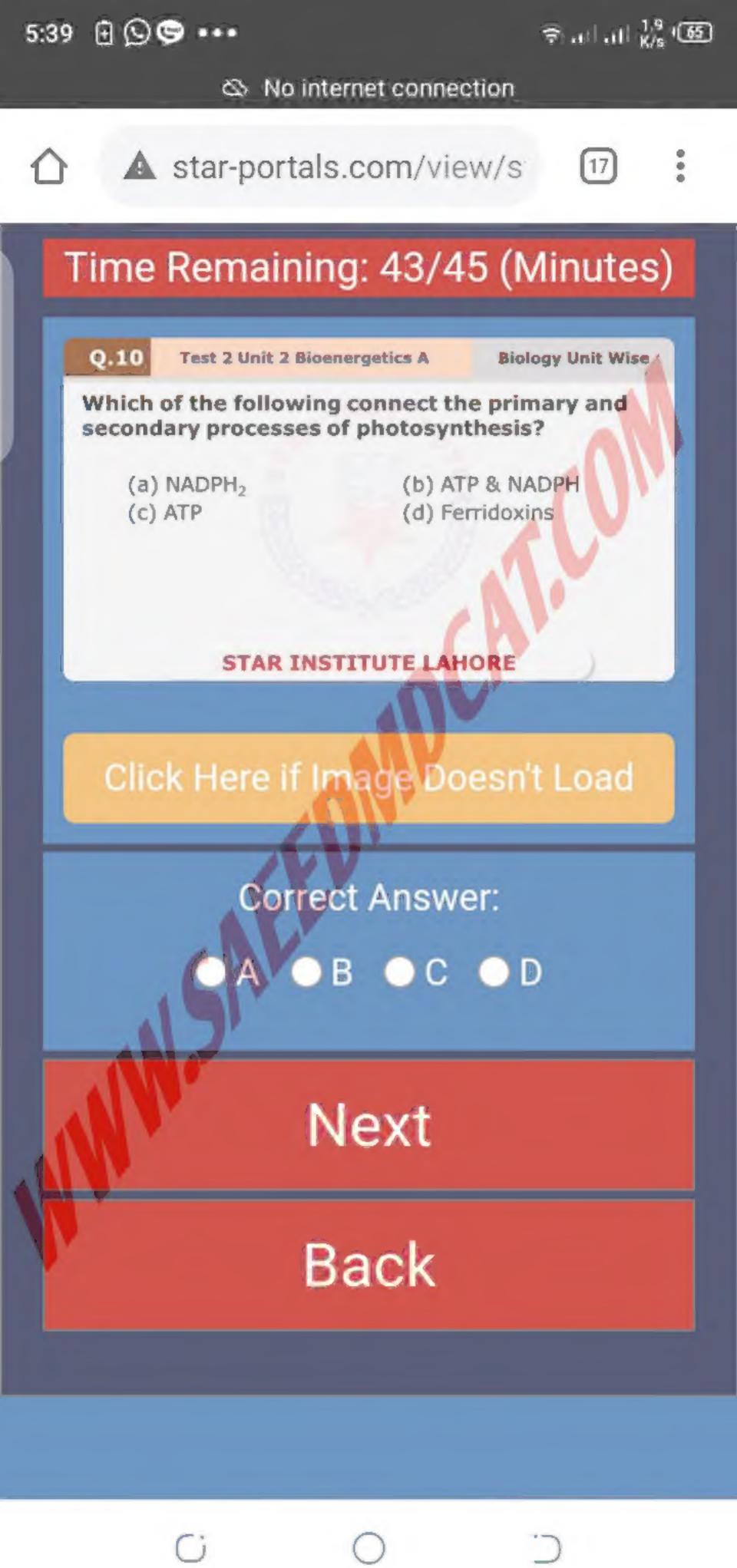
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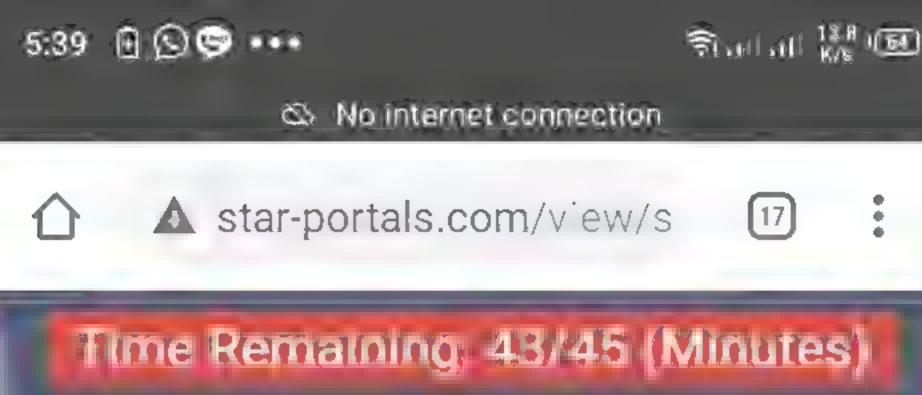
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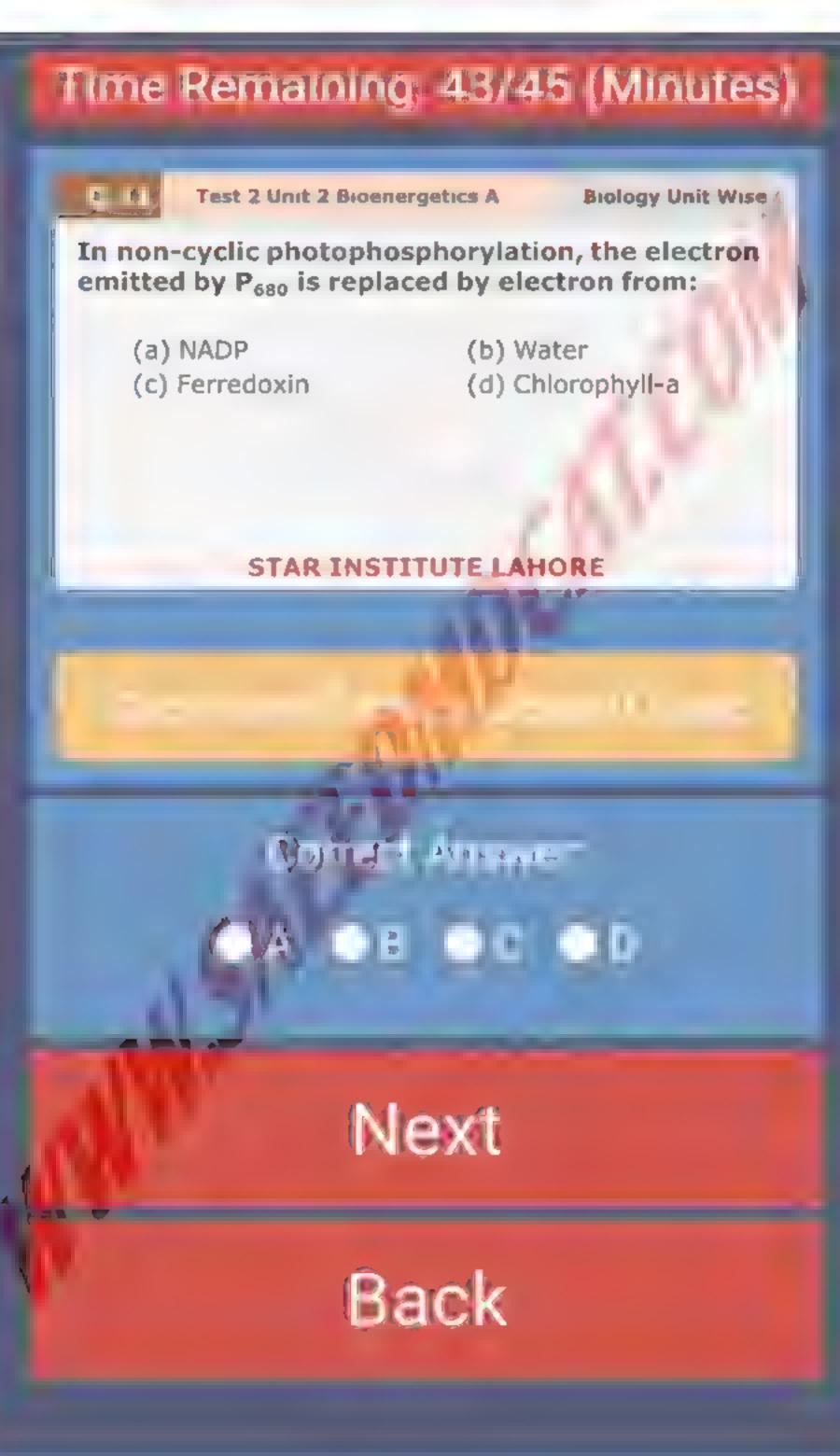
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Time Remaining 48/45 (Minutes)



Test 2 Unit 2 Bioenergetics A

Biology Unit Wise

Which of the following molecules are formed in the Calvin cycle while using ATP?

- (a) 1,3-bisphosphoglycerate and Ribulose bisphosphate
- (b) Ribulose bisphosphate and Glyceraldehyde-3phosphate
- (c) 3-phosphoglycerate and Ribulose bisphosphate
- (d) Glyceraldehyde3-phosphate and Glucose

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Time Remaining 48/45 (Minutes)

B (C)

Test 2 Unit 2 Bioenergetics A

Biology Unit Wise

In the Calvin cycle, what is the first product formed after the entry of carbon dioxide?

- (a) Glucose
- (b) Ribulose-1,5-bisphosphate
- (c) 3-Phosphoglycerate
- (d) Glyceraldehyde-3-phosphate

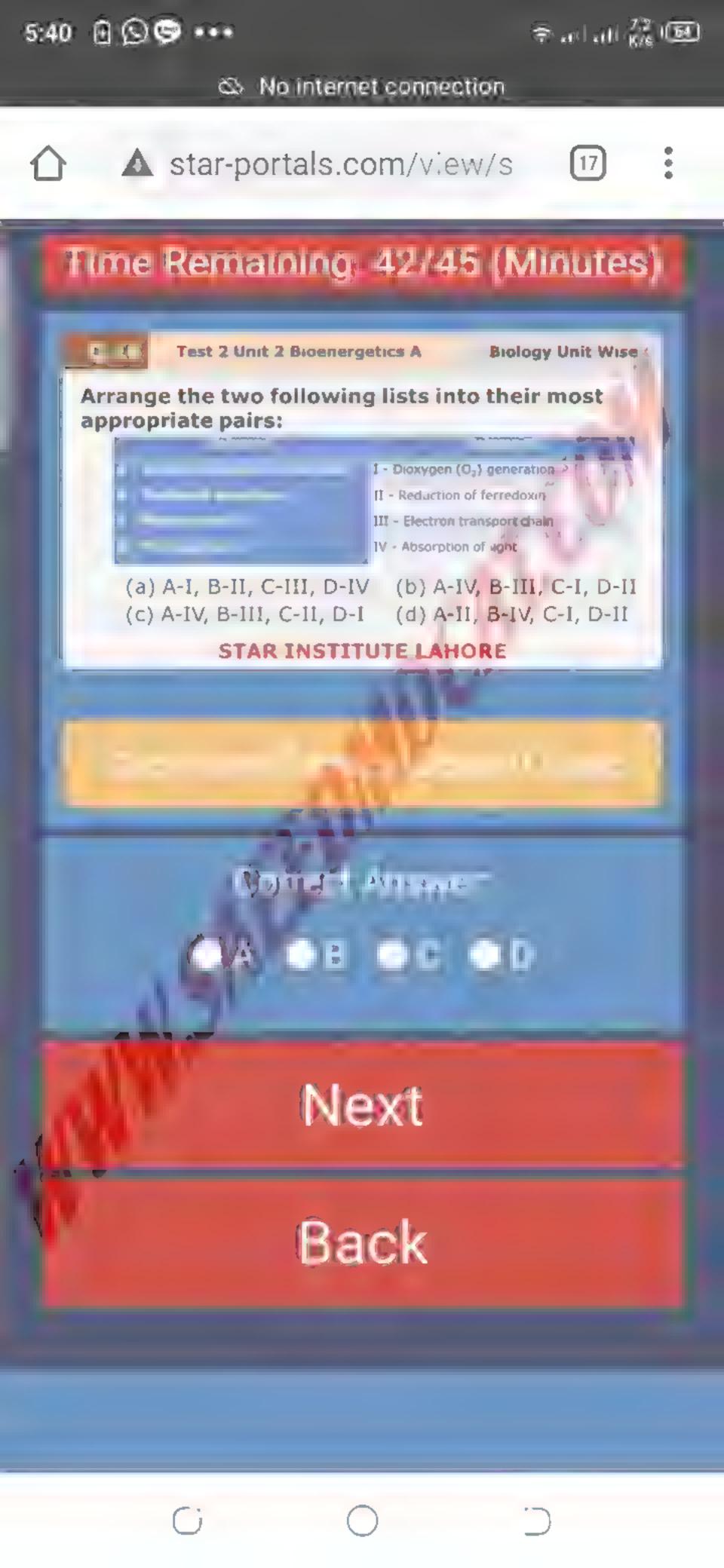
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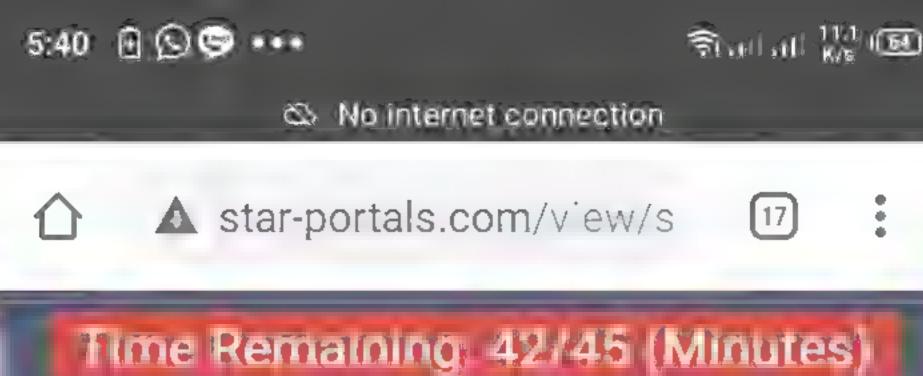
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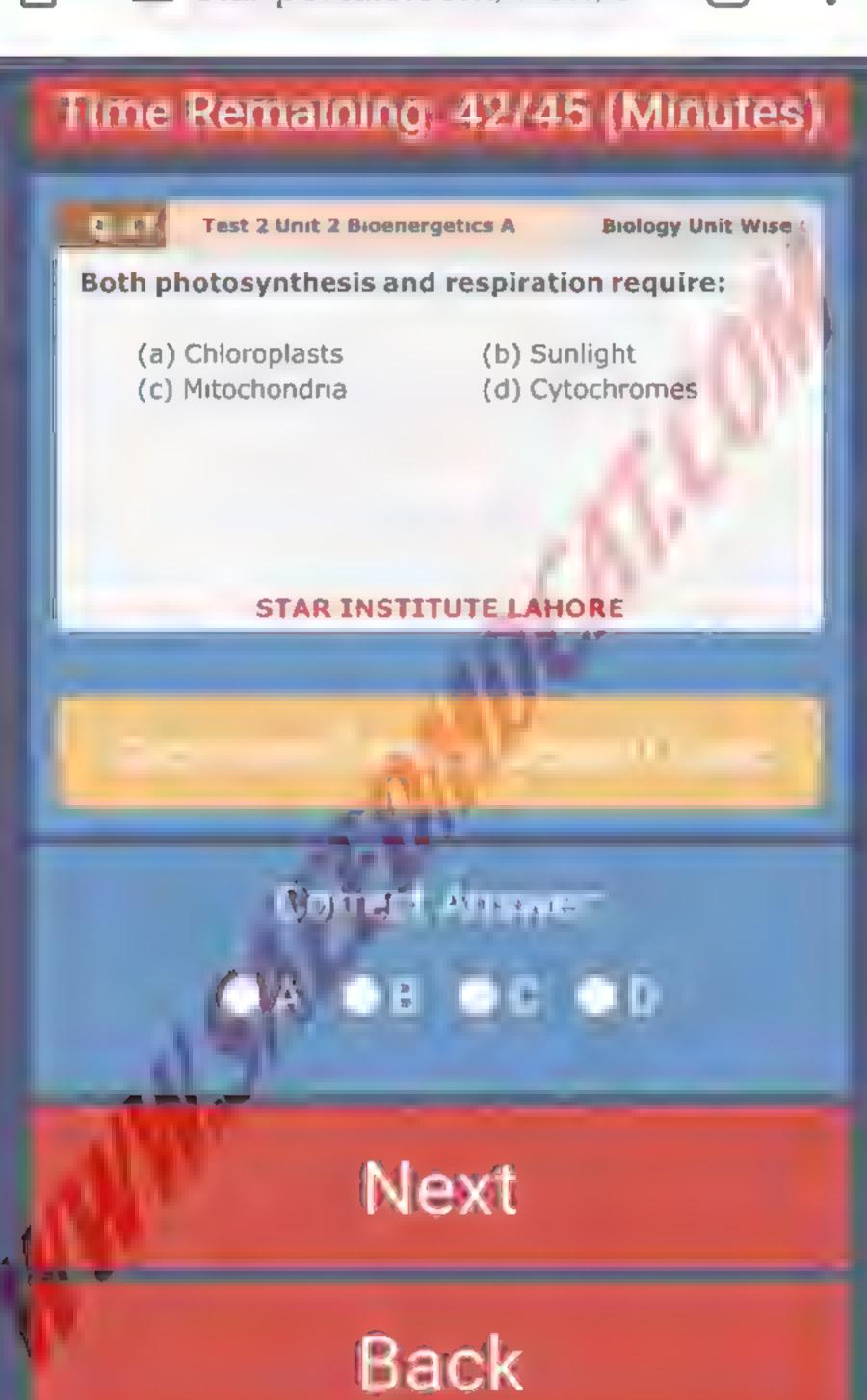
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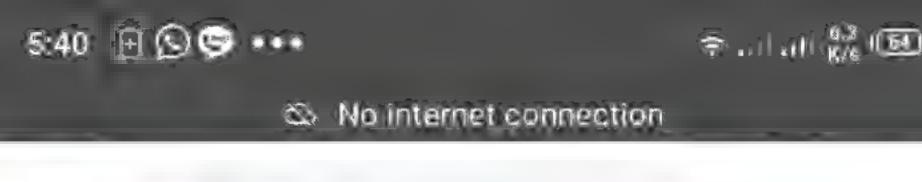
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Time Remaining 42/45 (Minutes)



Test 2 Unit 2 Bioenergetics A

Biology Unit Wise

Which one of the following is not true about the light reactions of photosynthesis?

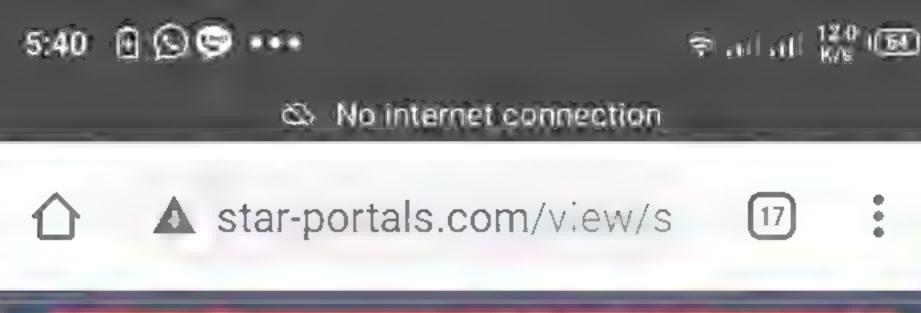
- (a) NADPH is not produced in cyclic electrons transport in light reactions.
- (b) The flow of electrons from water to NADP in non-cyclic electron transport produces one ATP
- (c) Reactions of the two photosystems are needed for the reduction of NADP
- (d) P₆₈₀ and P₇₀₀ are the reaction centers of PS I and PS II respectively reactions

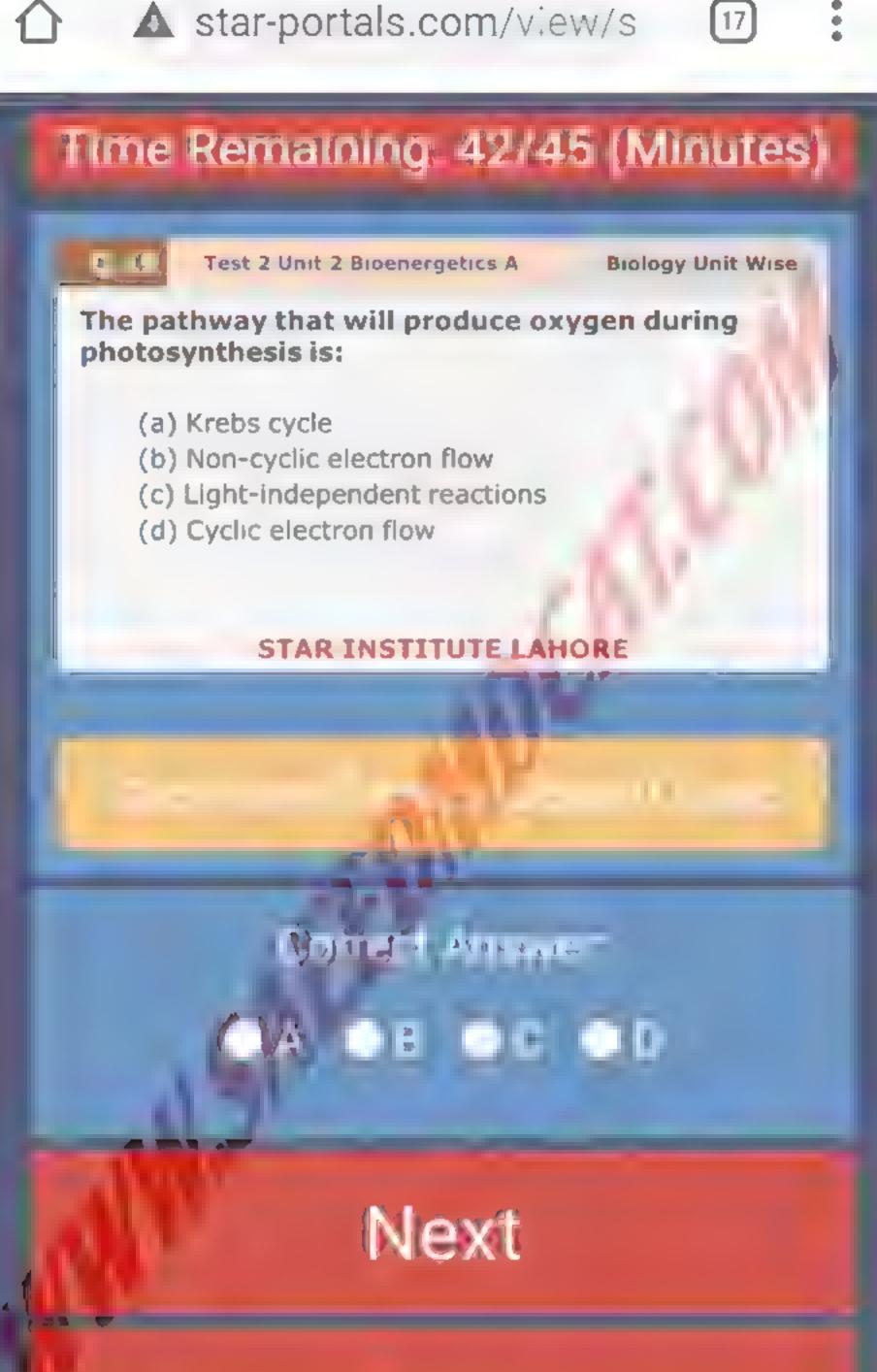
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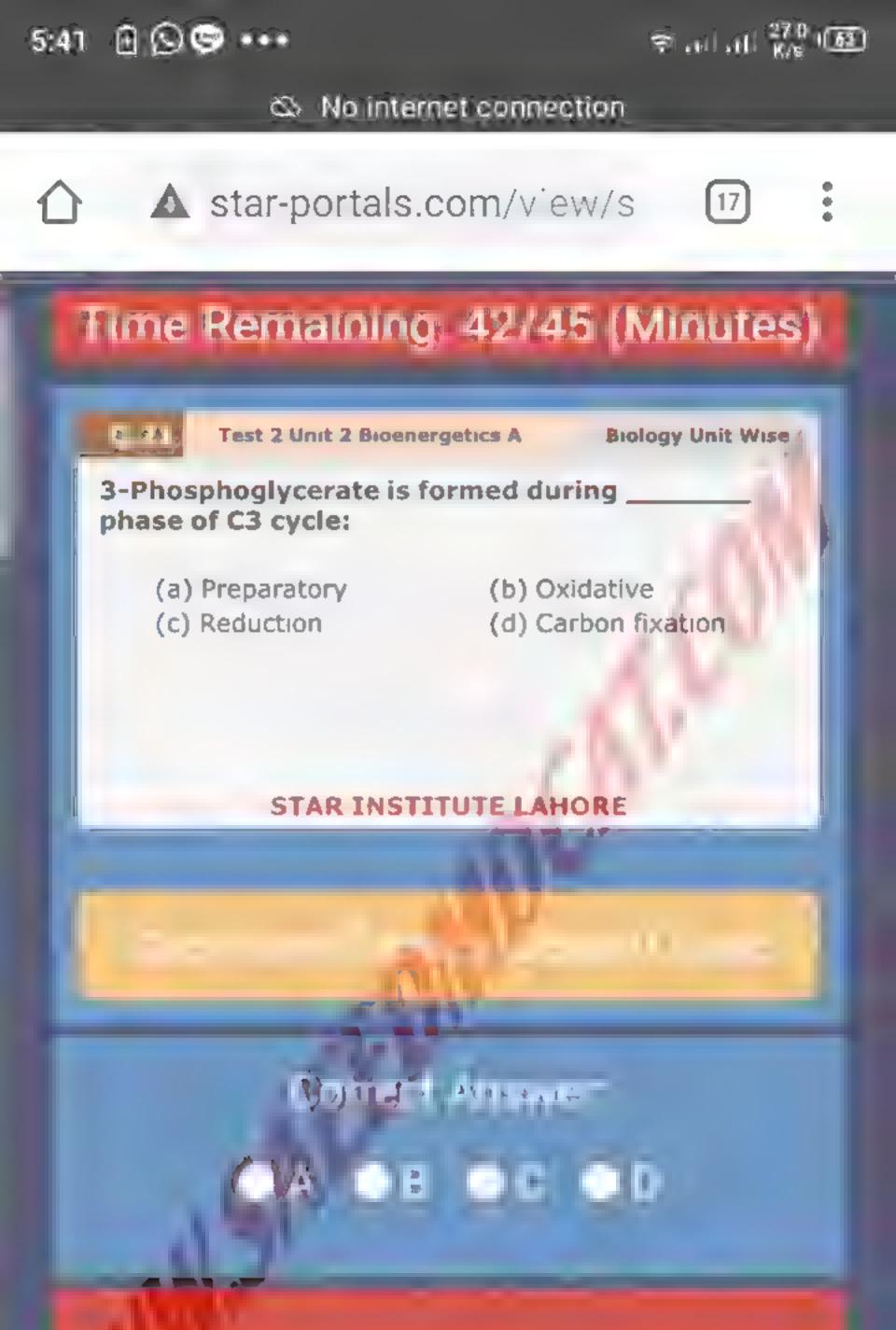
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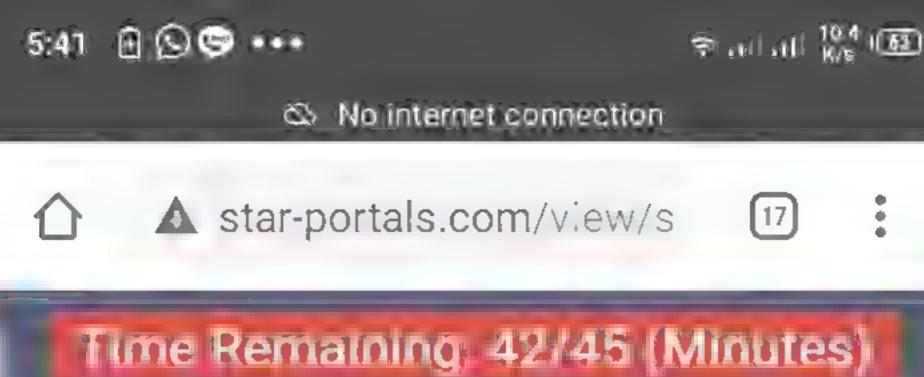




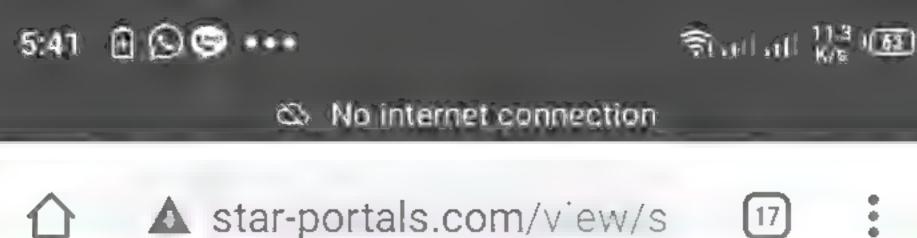




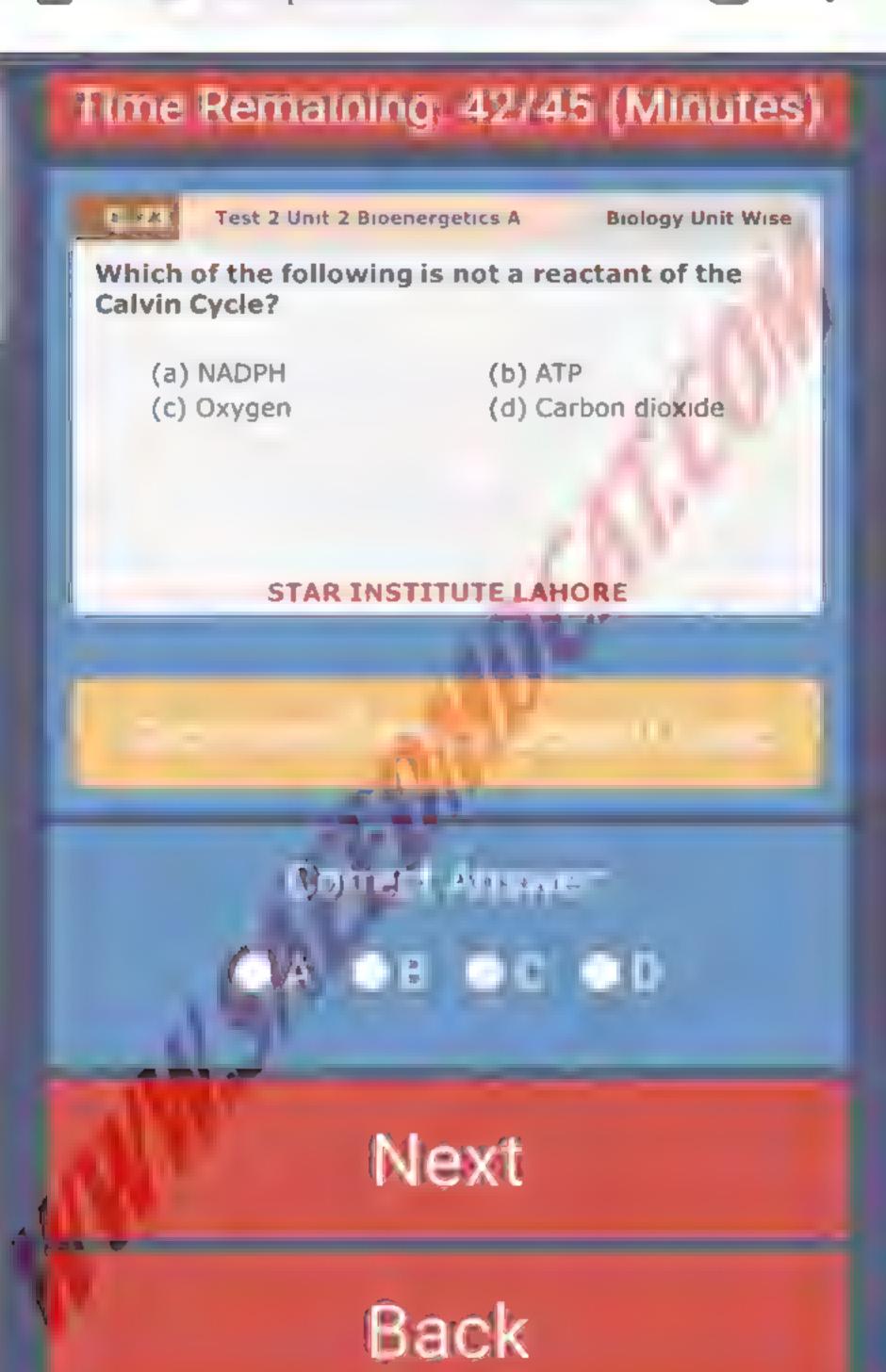








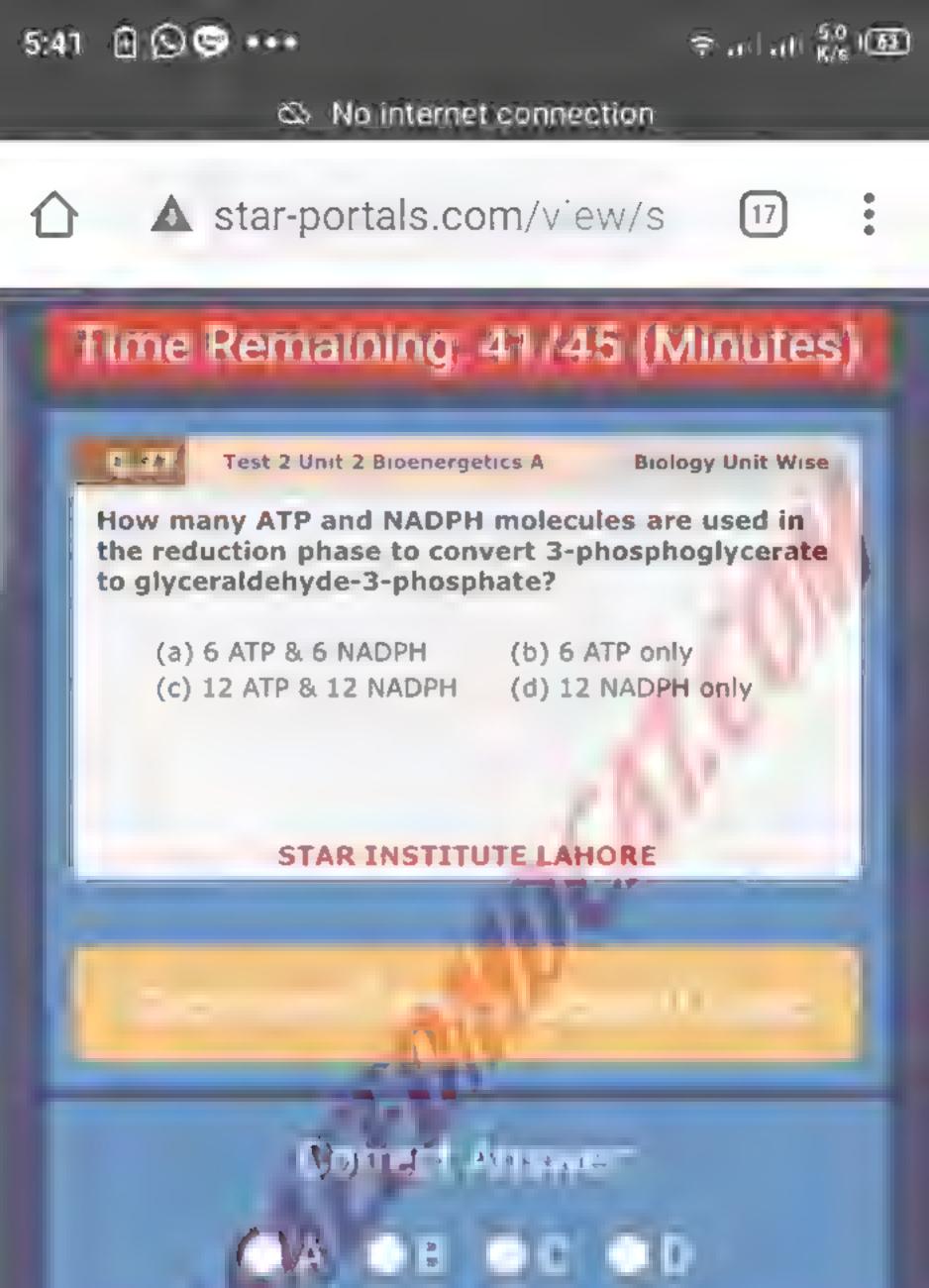


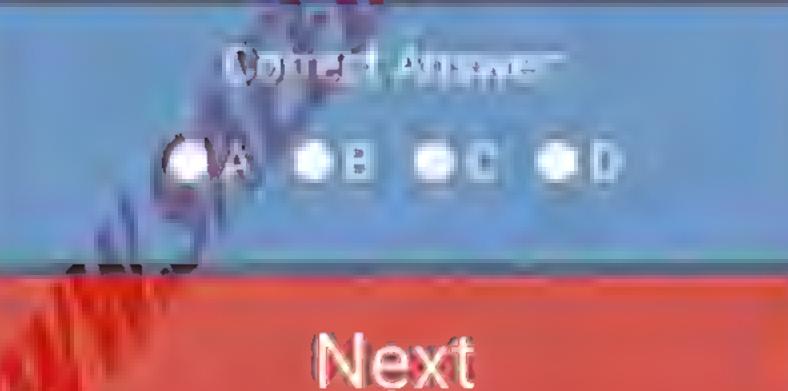


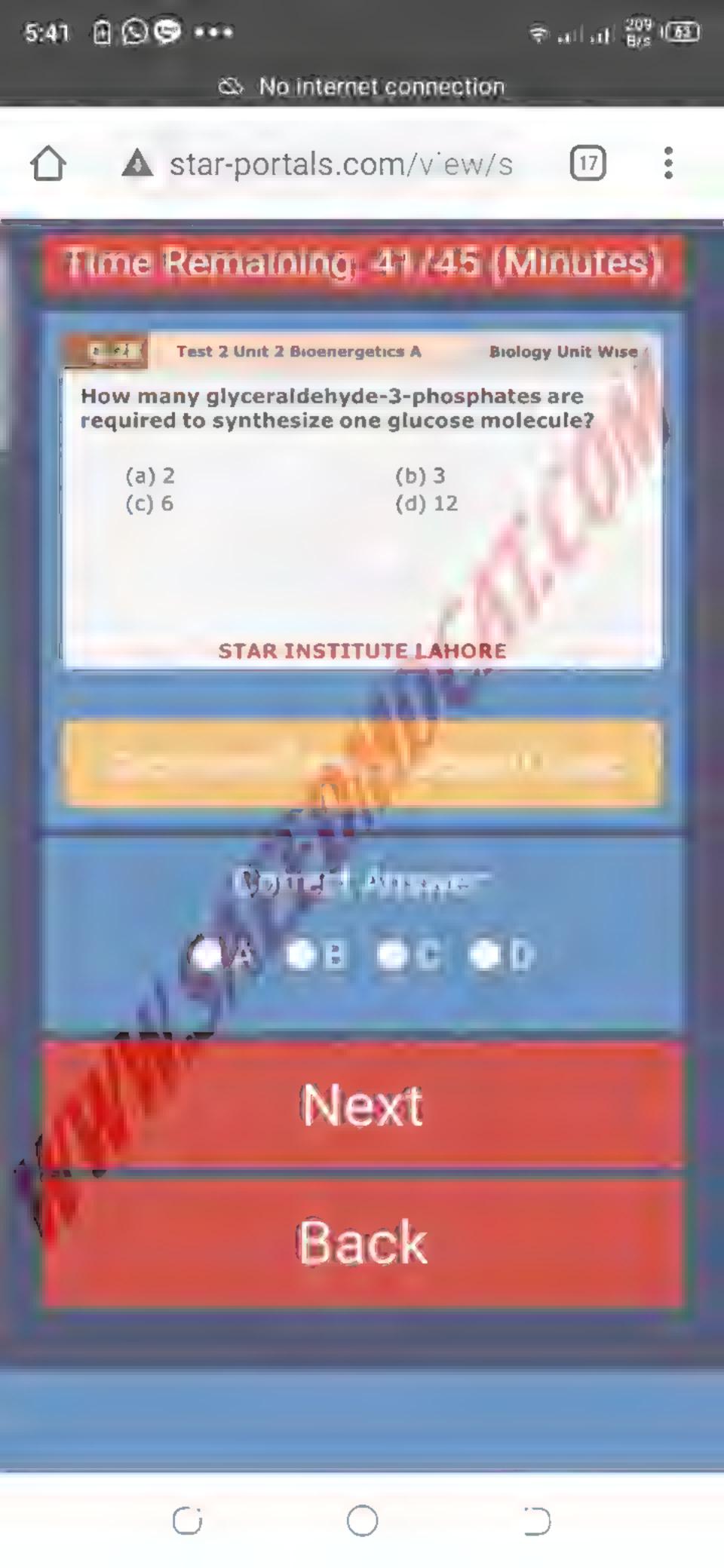




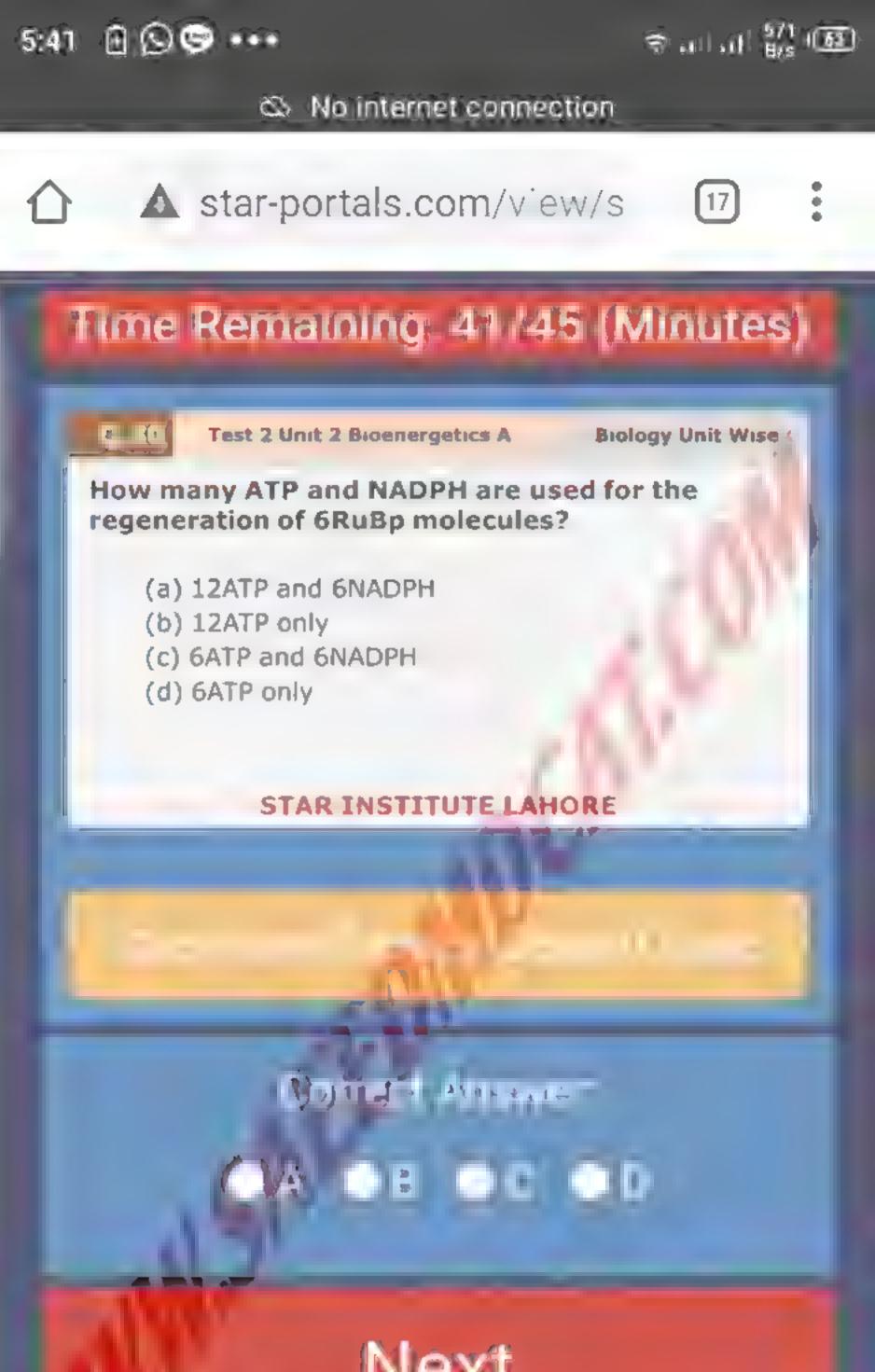








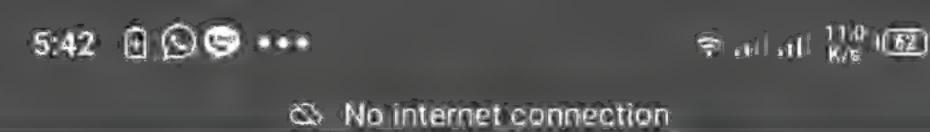




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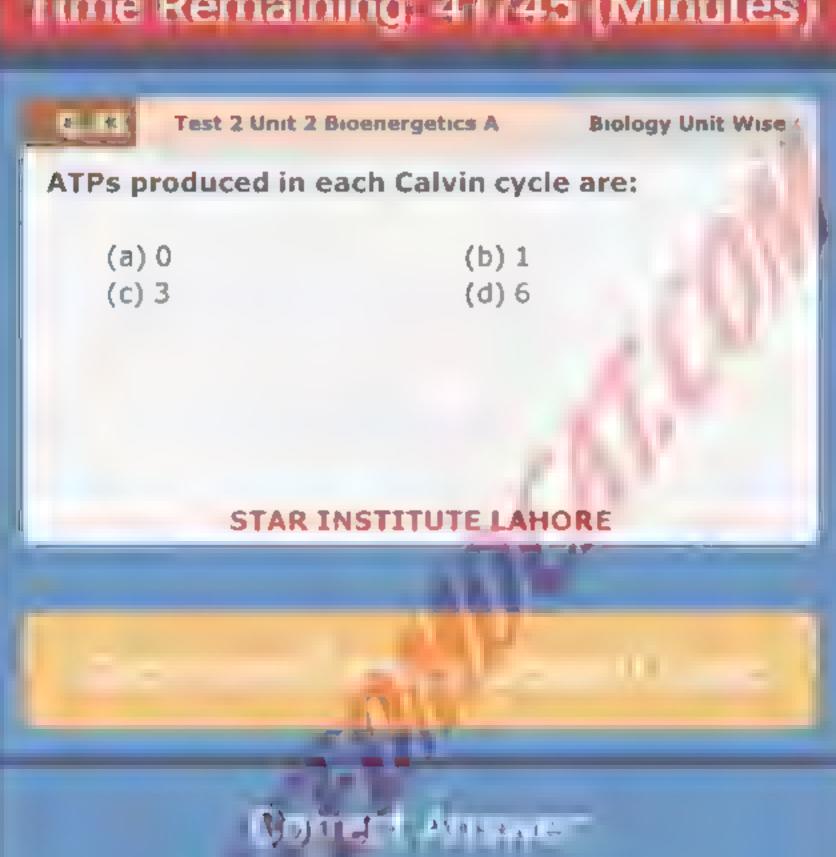




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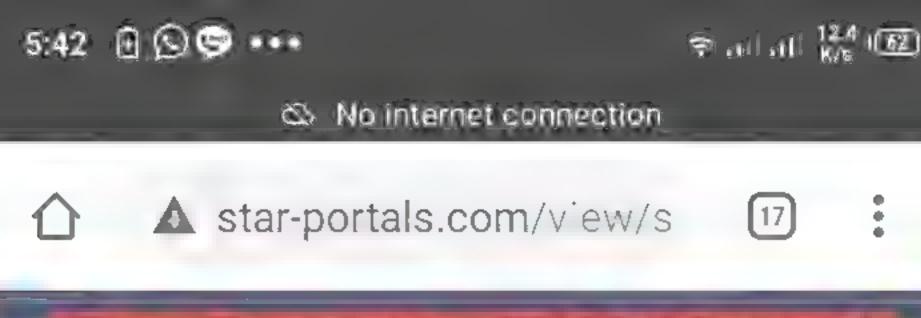




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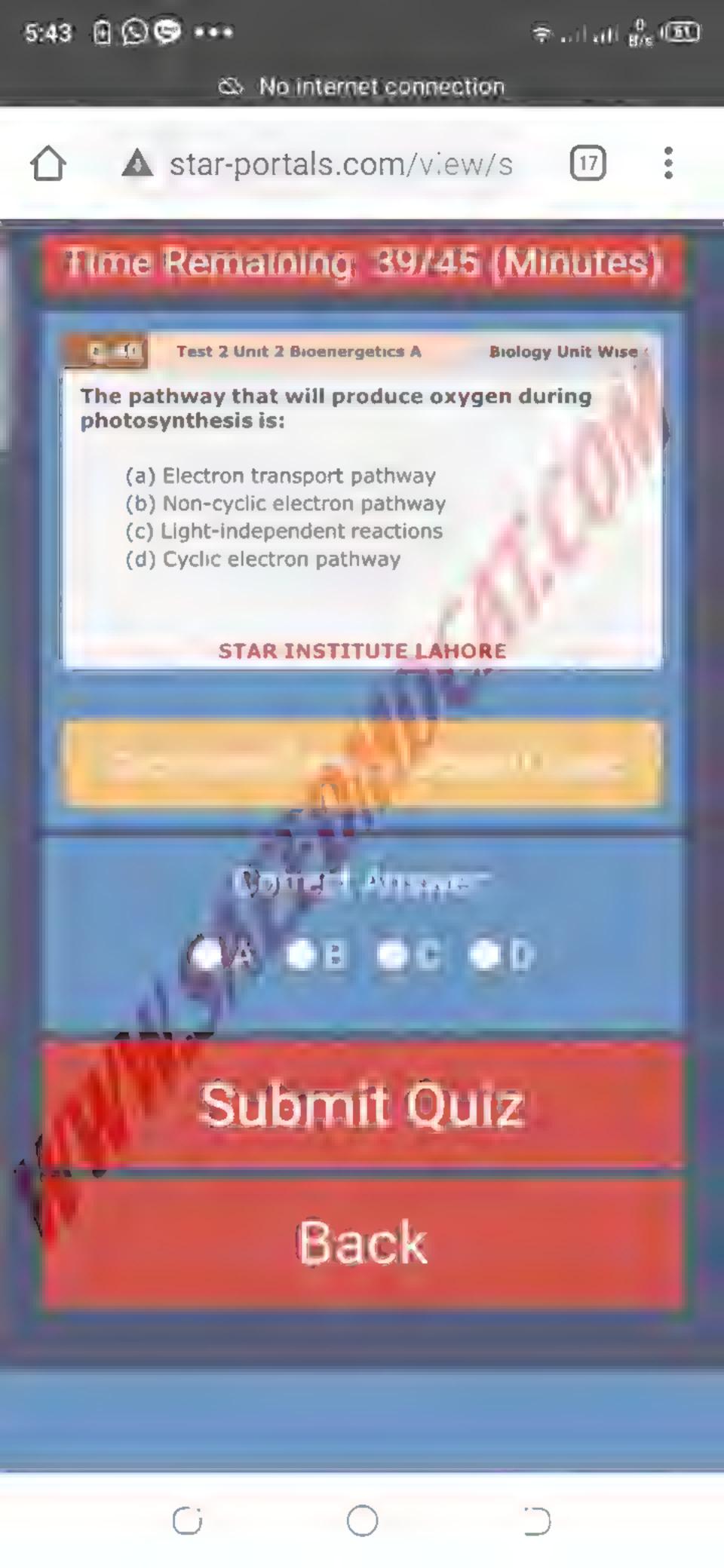












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By: Prof. M. Umair Bhatti



Which of the following statements about photosynthesis is wrong?

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(a) Carbon dioxide molecules are bound into carbohydrates during the second half of the process (b) It is a catabolic process that releases the energy stored in glucose molecules

(d) May occur in both prokaryotic and eukaryotic cells (c) Oxygen is released as a waste product





How does photosynthesis occur?

0

(a) Glucose is broken down into carbon dioxide using the energy of the sun

(b) The products of the light reaction are used to create glucose from carbon dioxide (c) The sunlight directly powers ATP synthase, which catalyzes the creation of glucose

(d) The electrons from metals are used for chemiosmosis





NADPH and ATP, formed during light reaction of photosynthesis

power respectively (a) Assimilating & reducing

have:

0

(b) Reducing & assimilating power respectively

(c) Oxidizing & reducing power respectively

(d) Reducing & oxidizing power respectively



What is wrong about dark reaction of photosynthesis?

(a) It only takes place in dark

0

(b) It utilizes the light directly

(c) It is independent from light reaction

(d) All of these



CO₂ and water during photosynthesis:

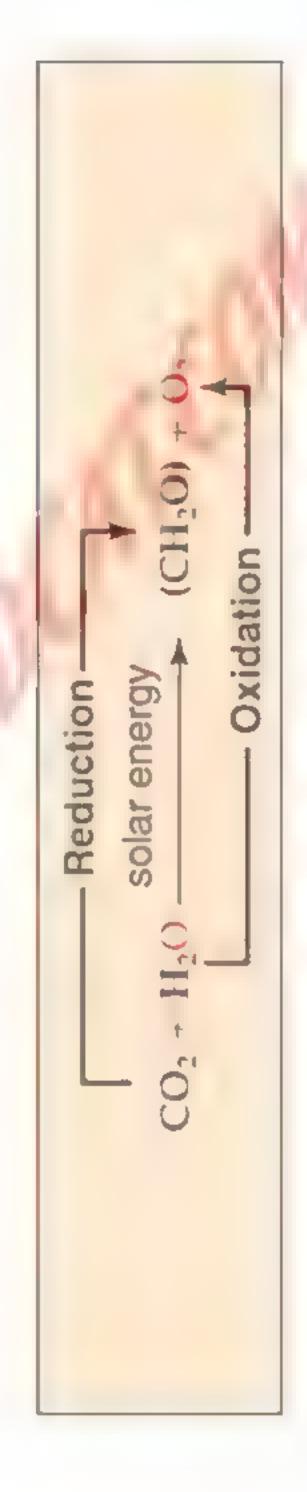
(a) React with each other

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(b) Show their action at same time

(c) Is reduced and oxidized, respectively

(d) None of these





f water in the presence of: Photolysis is the splitting of

(a) Light

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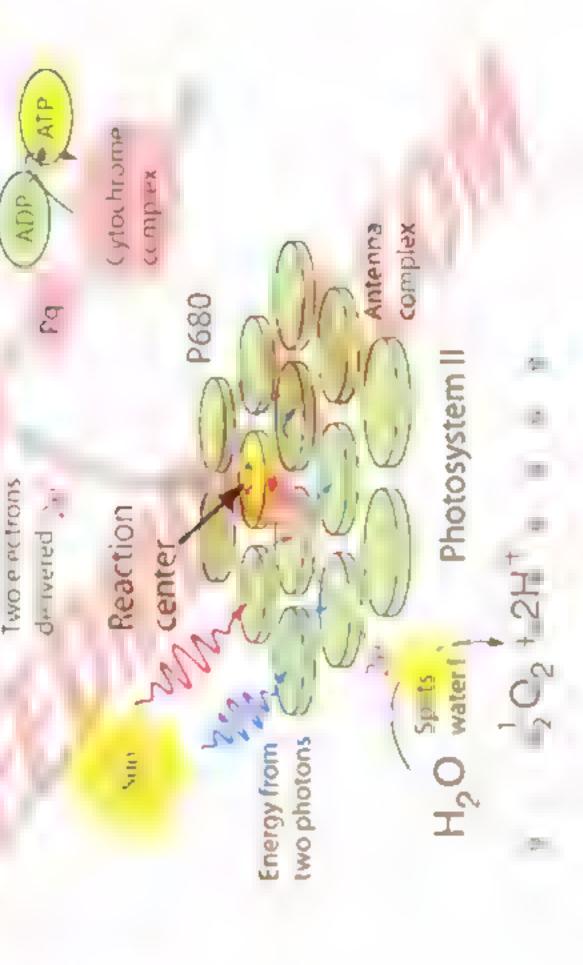
(b) Enzymes

acceptor

Primary

(c) Oxygen (d) Both 'a' & 'b'

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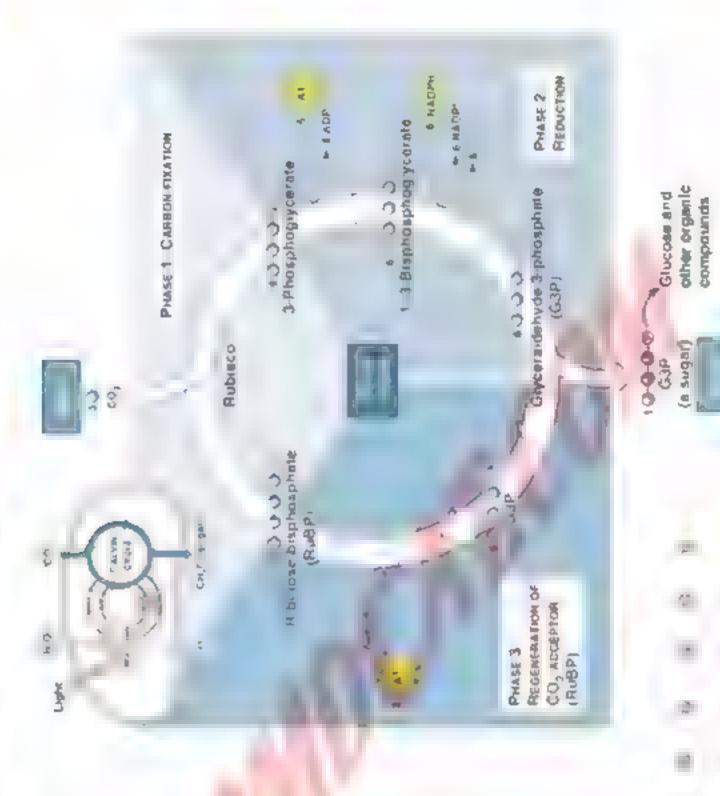


Dark reaction of photosynthesis is also called as:

(b) Light dependent reaction (a) C₄ cycle

(c) Calvin cycle (d) All of these







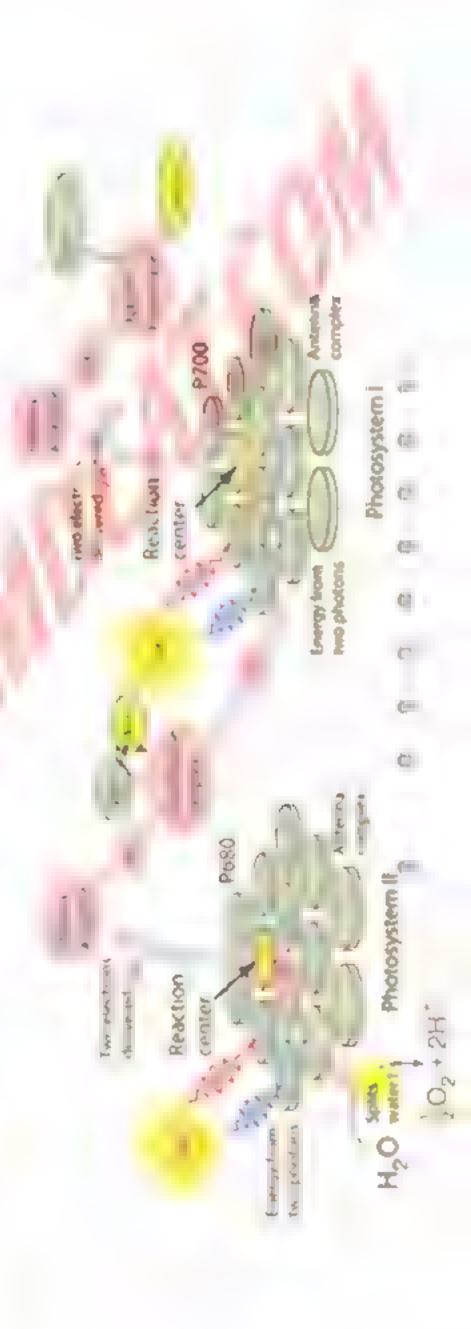
non-cyclic photophosphorylation is: Unidirectional flow of e- in

(a) PS II _

NADP PS . PSII (b) Water__

→ PS II Water NADP -(c) PS I _e_

→ NADP → PS I - PS I-(d) Water



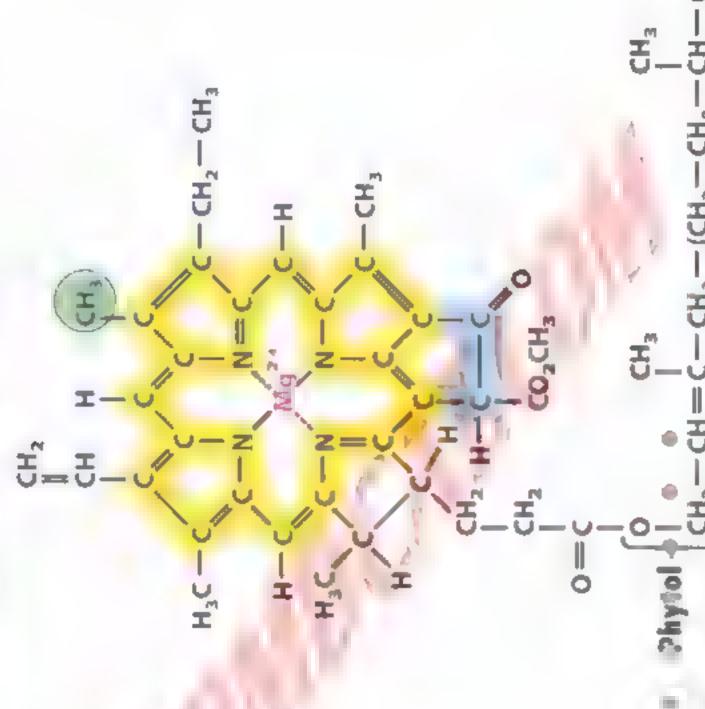


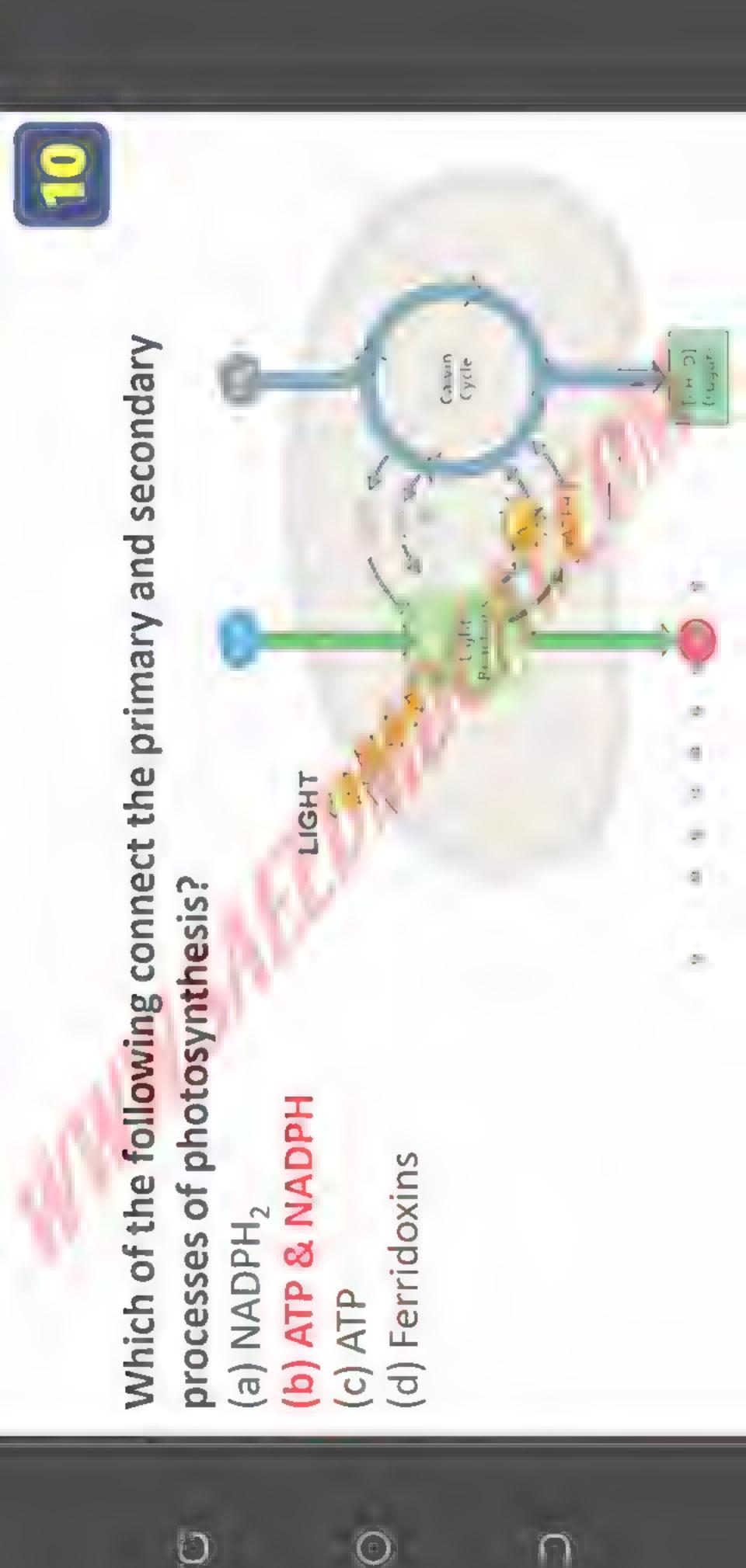
The head and tail of chlorophyll are made up of

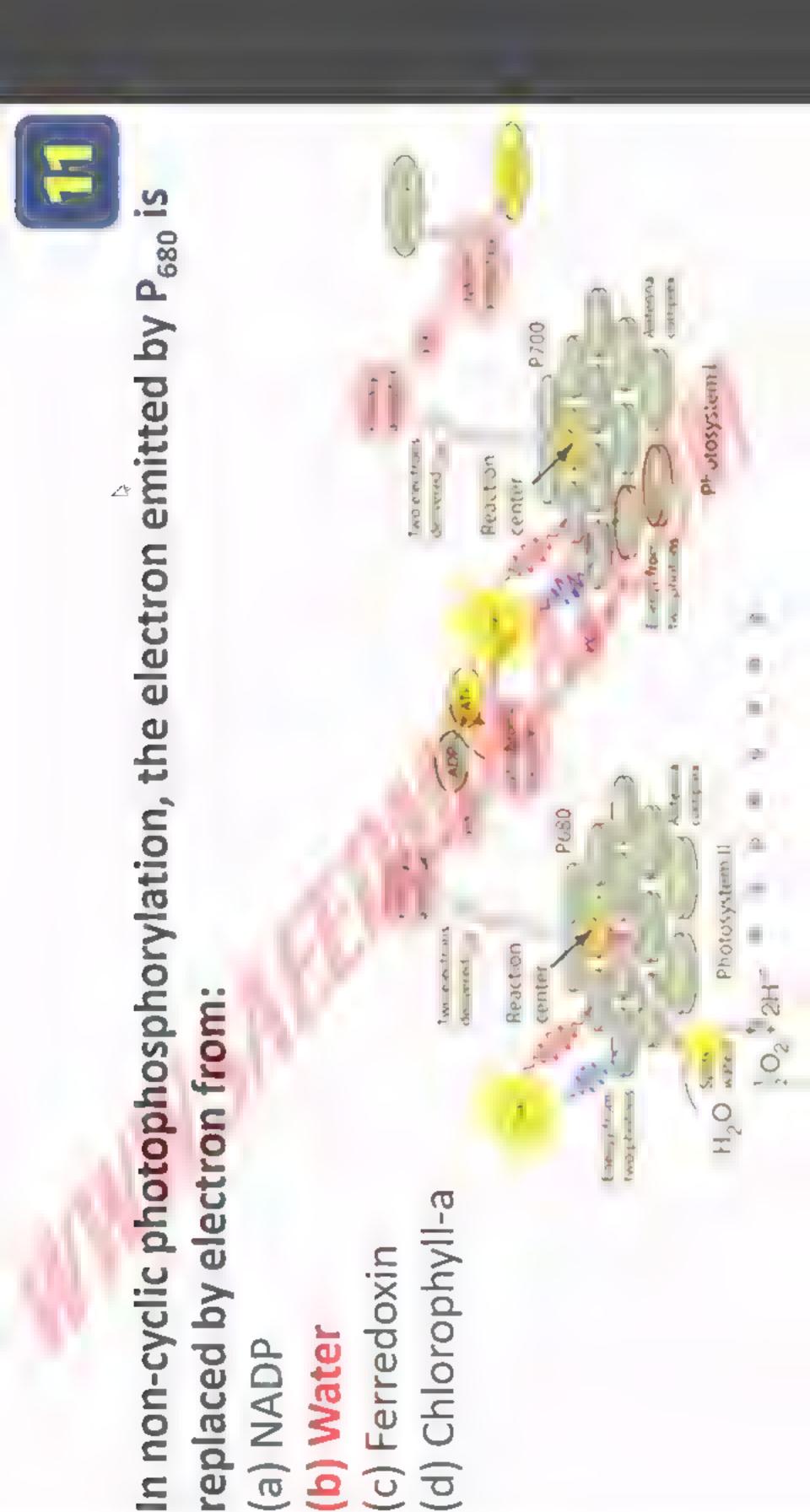
(a) Pyrrole & Tetrapyrrole respectively:

(b) Porphyrin & Phytin (c) Porphyrin & Phytol

(d) Tetrapyrrole & Magnesiu









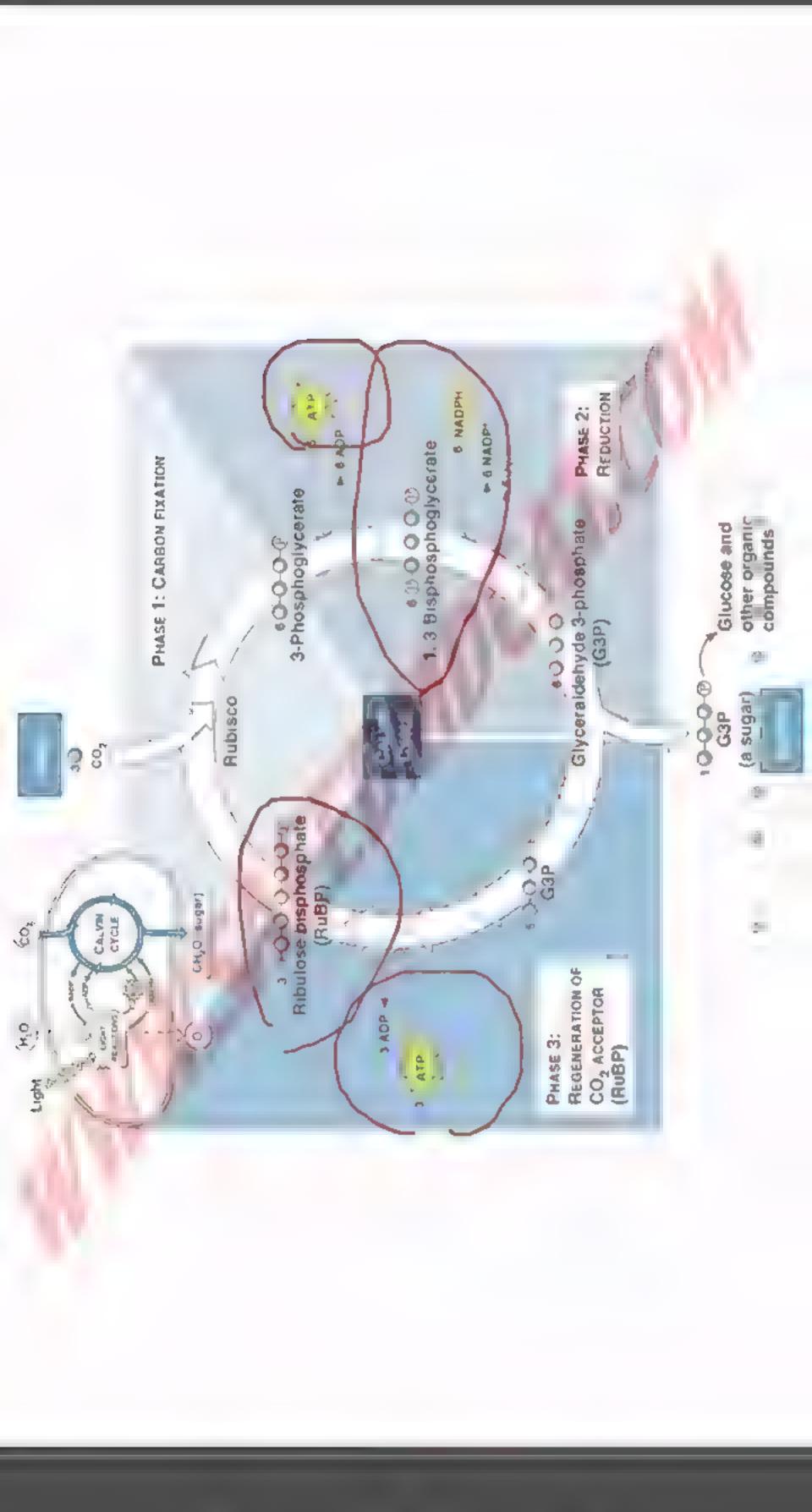
Which of the following molecules are formed in the Calvin cycle while using ATP?

(a) 1,3-bisphosphoglycerate and Ribulose bisphosphate

(b) Ribulose bisphosphate and Glyceraldehyde-3-phosphate

(c) 3-phosphoglycerate and Ribulose bisphosphate

(d) Glyceraldehyde-3-phosphate and Glucose





Which of the following statements is true for the Calvin cycle?

(a) It does not depend on sunlight to operate

(b) It is fueled by glucose

(c) Carbon dioxide is converted into water and oxygen

(d) It occurs in the nucleus of a cell



In the Calvin cycle, what is the first product formed after the entry of carbon dioxide?

- (a) Glucose
- (b) Ribulose-1,5-bisphosphate
- (c) 3-Phosphoglycerate
- (d) Glyceraldehyde-3-phosphate



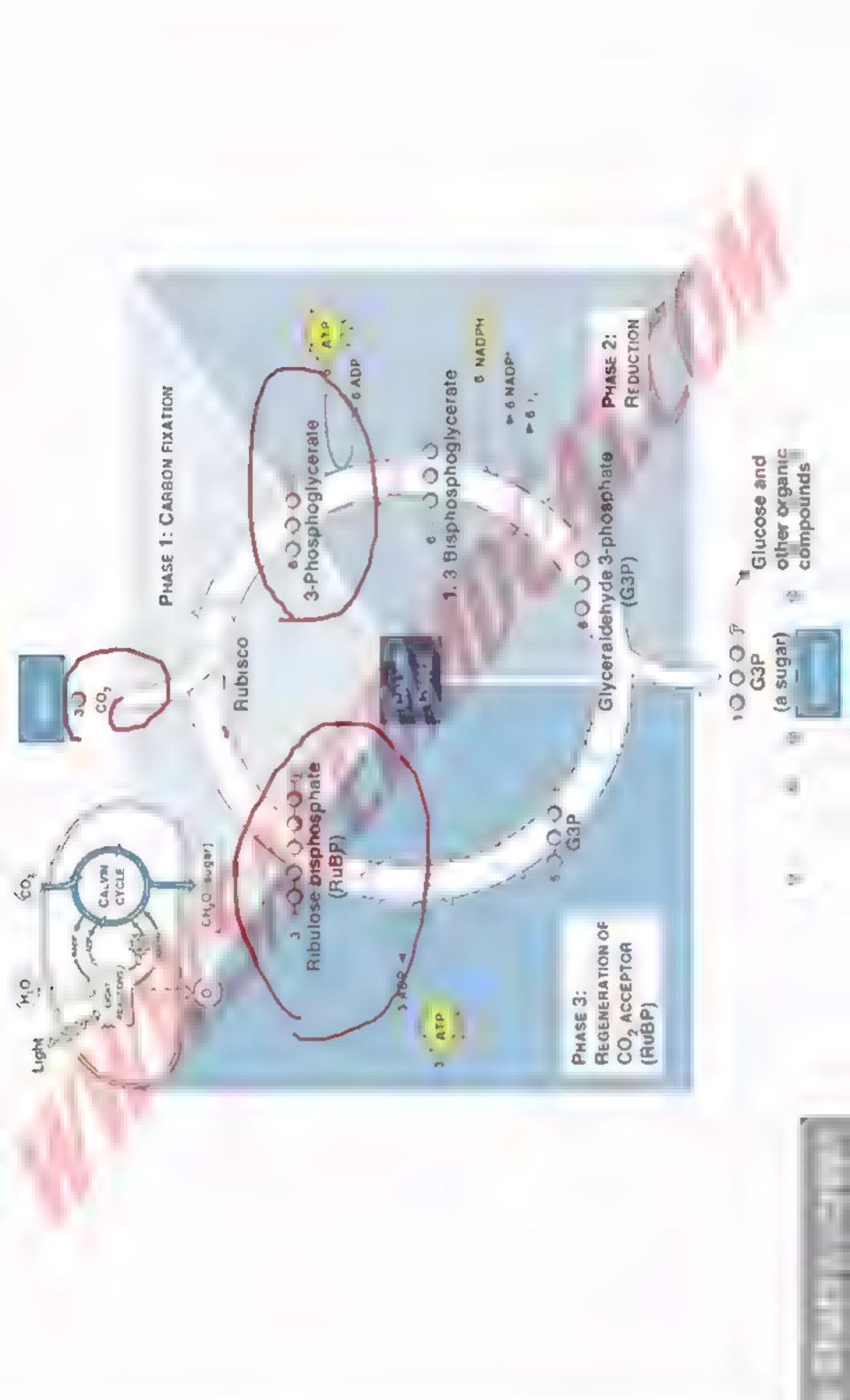
In the Calvin cycle, which molecule combines with carbon dioxide?

(a) Glucose

(b) 3-phosphoglycerate

(c) Glyceraldehyde-3-phosphate

(d) Ribulose-1,5-bisphosphate





Arrange the two following lists into their most appropriate pairs:

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A - Antennae pigment molecules I - Dioxygen (0₂) generation

B - Thylakoid membrane

C - Photosystem II

D - Photosystem I

- II Reduction of ferredoxin
- III Electron transport chain
- IV Absorption of light

- (a) A-I, B-II, C-III, D-IV
- (c) A-IV, B-III, C-II, D-I

- (b) A-IV, B-III, C-I, D-II
- (d) A-II, B-IV, C-I, D-II





is not true about the light reactions of Which one of the following photosynthesis?

0

(a) NADPH is not produced in cyclic electrons transport in light reactions. (b) The flow of electrons from water to NADP in non-cyclic electron transport produces one ATP (c) Reactions of the two photosystems are needed for the reduction of NADP (d) P₆₈₀ and P₇₀₀ are the reaction centers of PS I and PS II respectively reactions



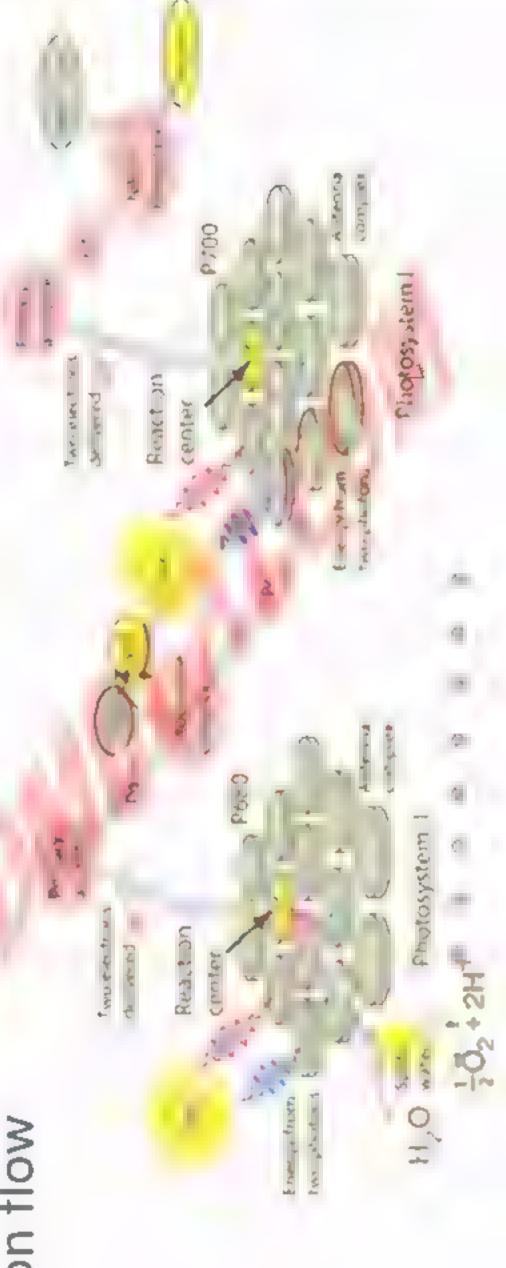
The pathway that will produce oxygen during photosynthesis is:

(a) Krebs cycle

(b) Non-cyclic electron flow

(c) Light-independent reactions

(d) Cyclic electron flow







phase of C₃ cycle: ed during. 3-Phosphoglycerate is form

(a) Preparatory (b) Oxidative

(c) Reduction

(d) Carbon fixation

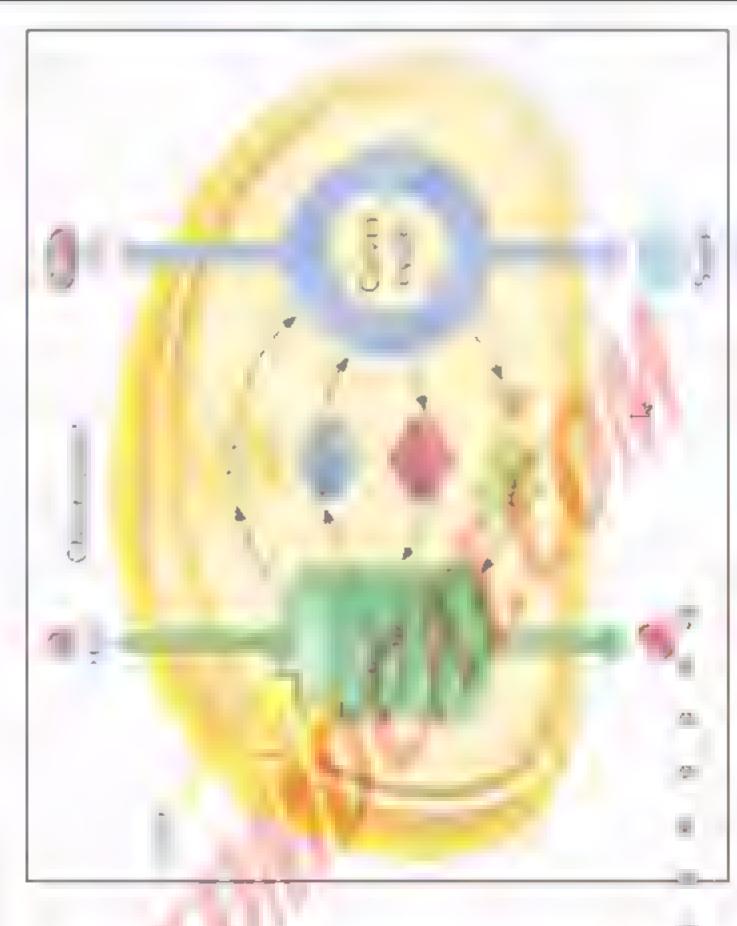


Where does the Calvin Cycle occur?

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(a) Thylakoid(b) Stroma(c) Lumen(d) Mitochondria

0

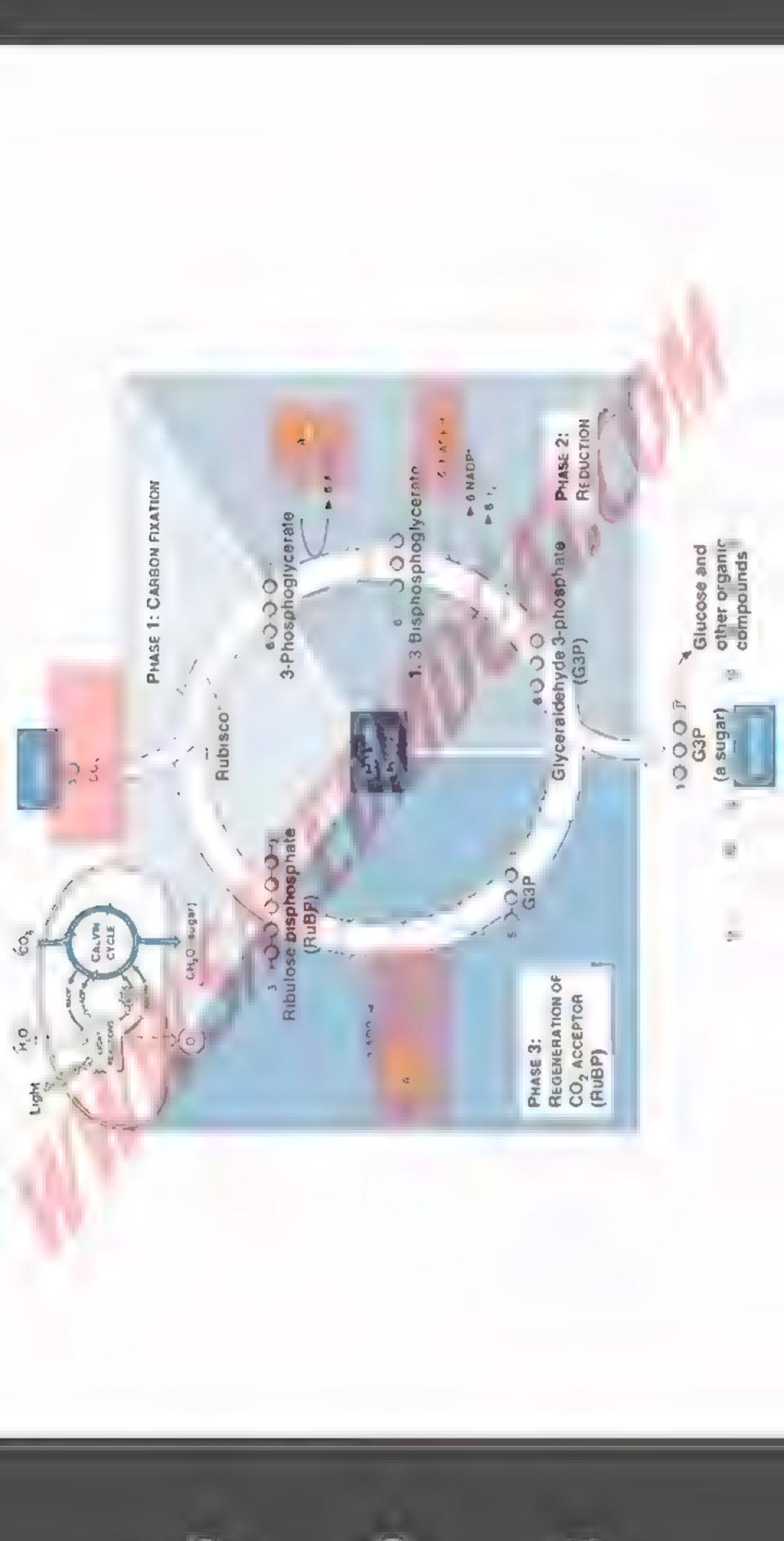




Which of the following is not a reactant of the Calvin Cycle?

O

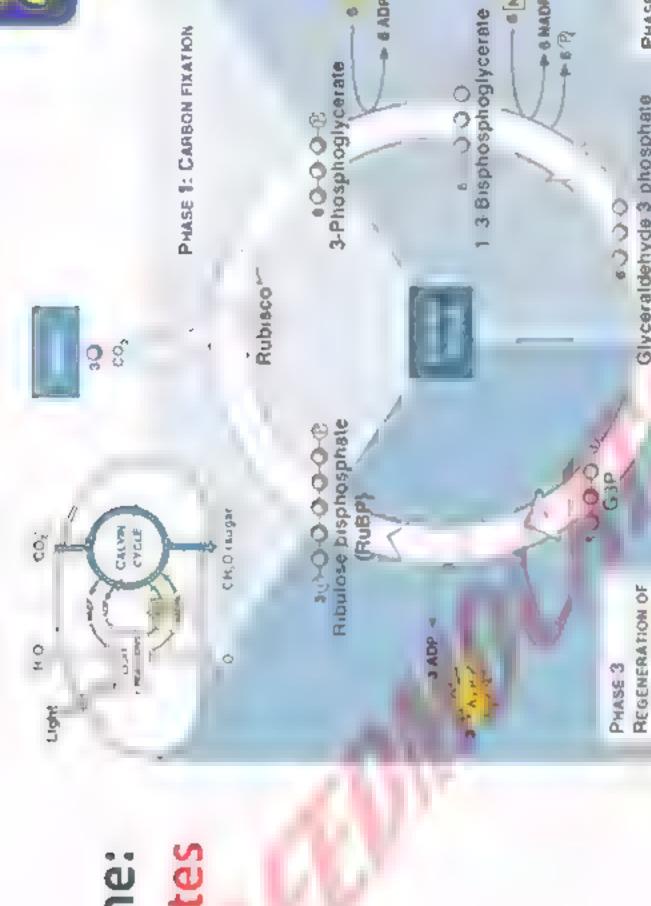
(a) NADPH(b) ATP(c) Oxygen(d) Carbon dioxide



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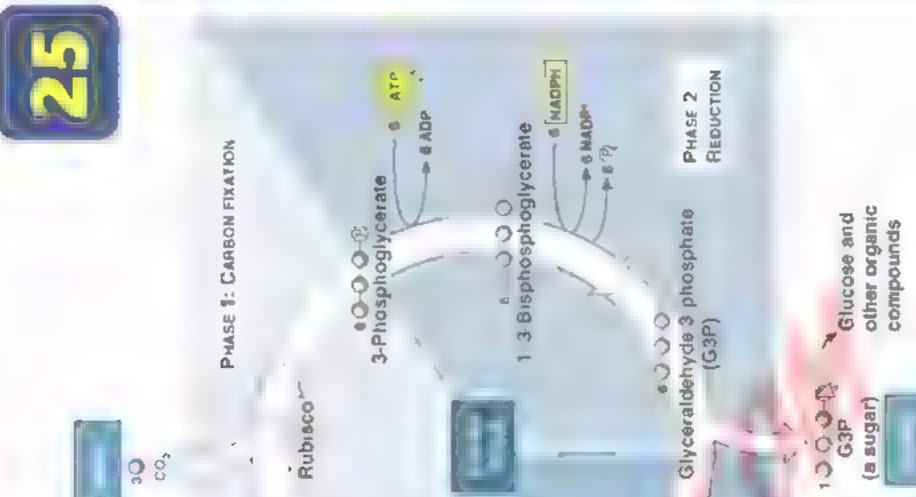


Umair Bhatti's screen





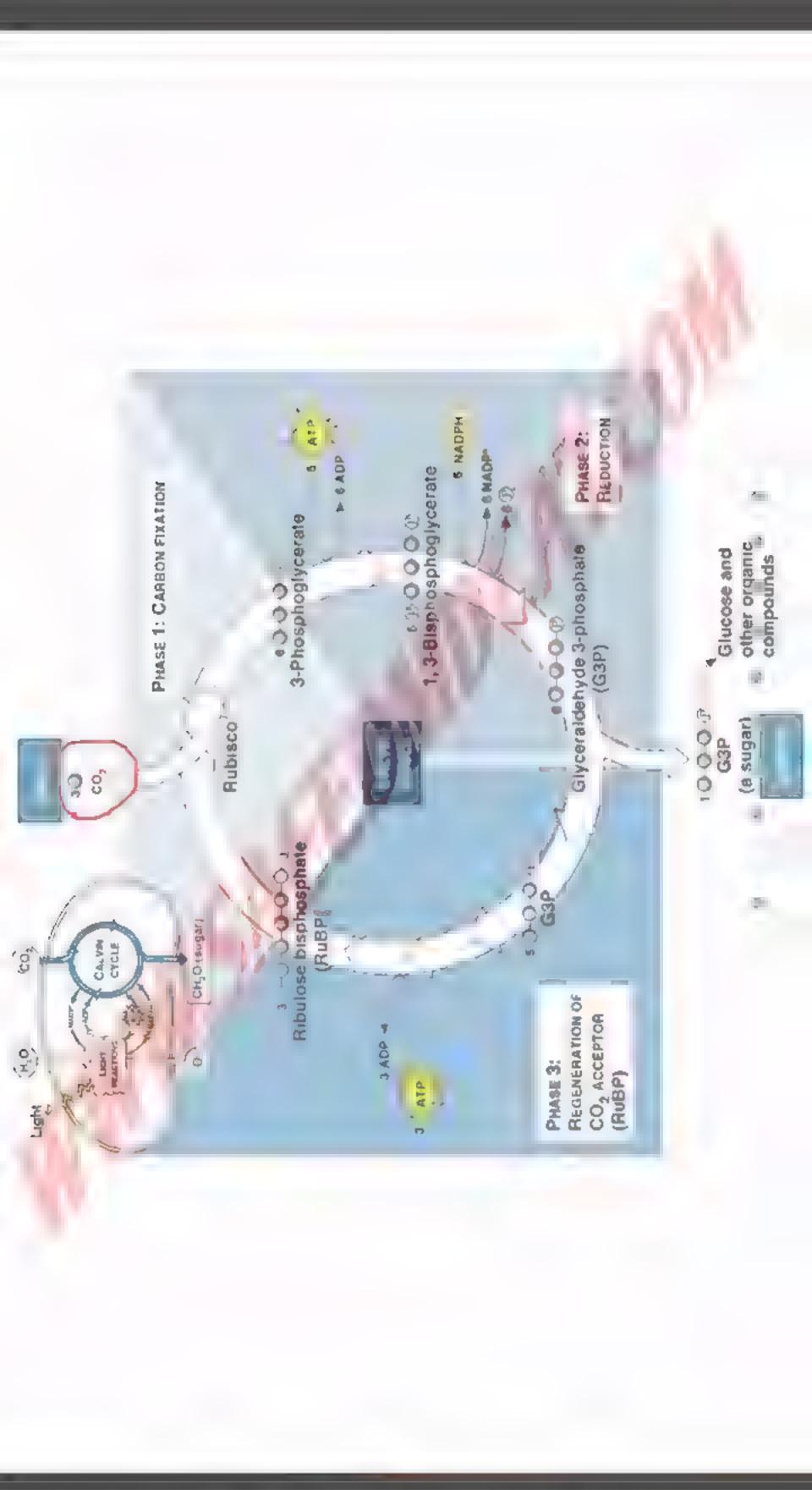
(a) Synthesis of carbohydrates (b) Synthesis of NADPH (d) Hydrolysis of water (c) Synthesis of ATP



CO, ACCEPTOR

(HuBP)







molecules are used in the reduction phase to convert 3-phosphoglycerate to glyceraldehyde-3-How many ATP and NADPH phosphate?

(a) 6 ATP & 6 NADPH

(b) 6 ATP only

(c) 12 ATP & 12 NADPH

(d) 12 NADPH only







are used for the regeneration of 6RuBp How many ATP and NADPH molecules?

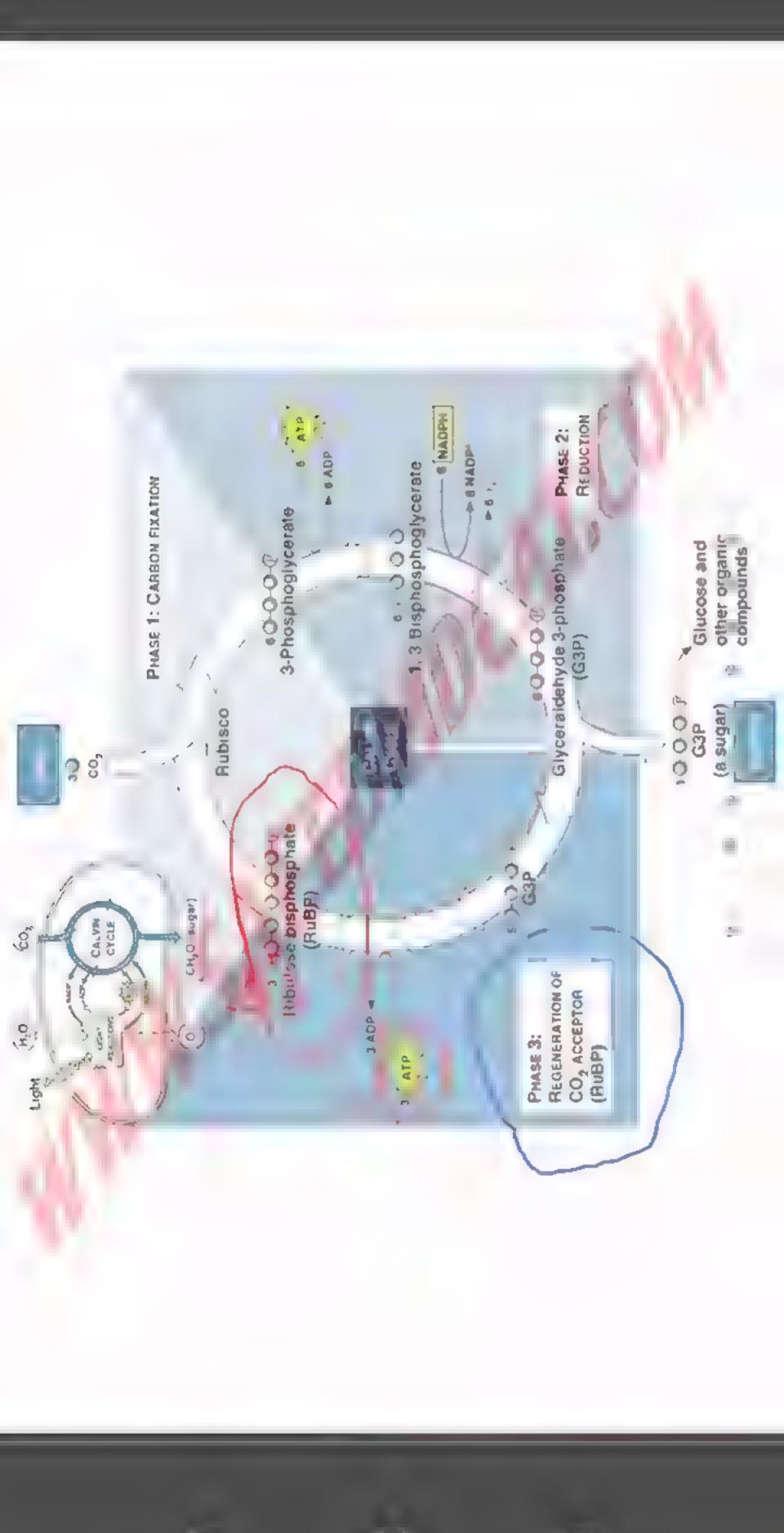
(a) 12ATP and 6NADPH

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(b) 12ATP only

(c) 6ATP and 6NADPH

(d) 6ATP only







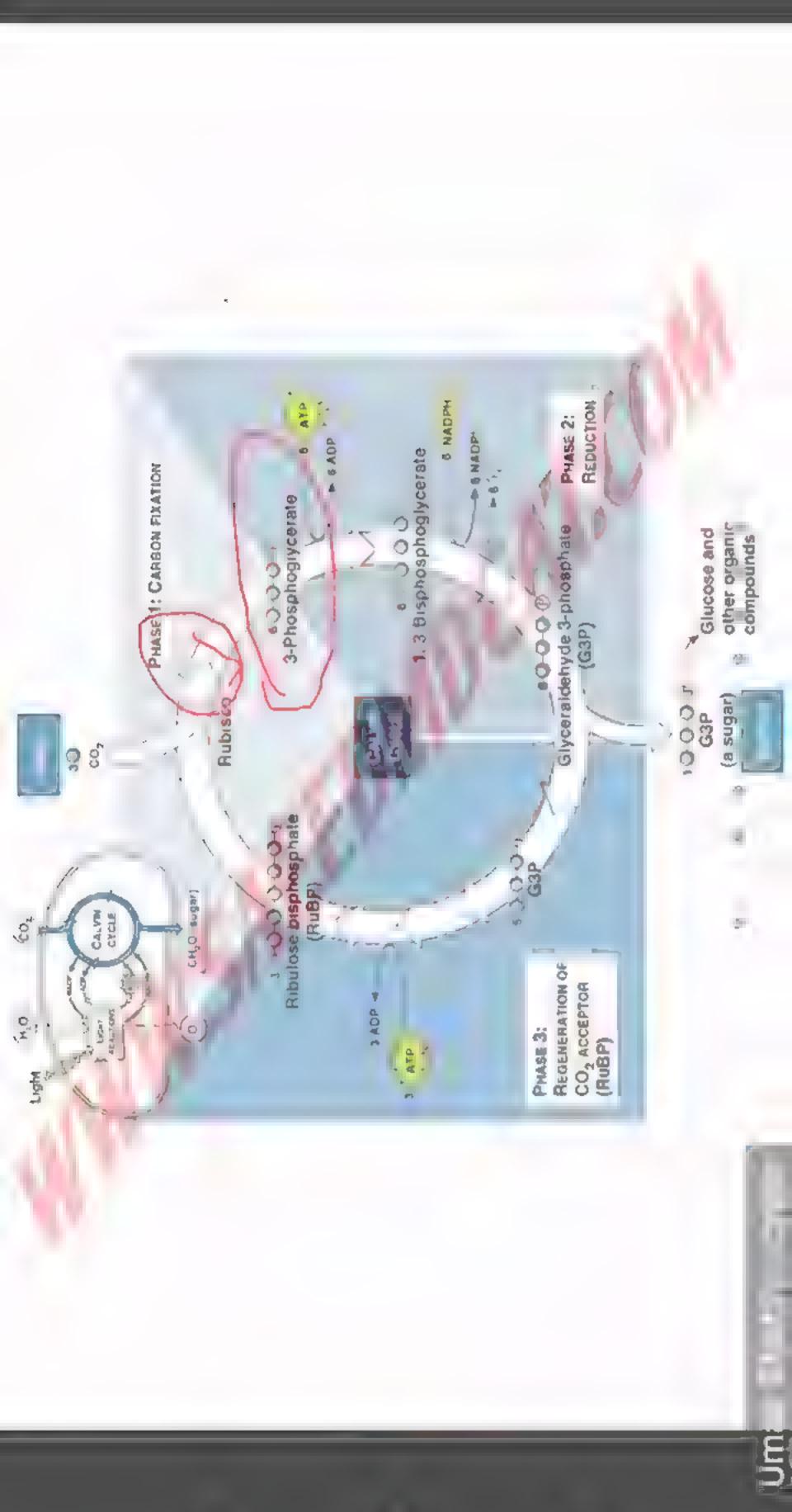
The unstable 6-carbon compound in Calvin cycle breaks down into:

(a) Two 3-carbon compounds

(b) Three 2-carbon compounds

(c) Six 1-carbon compounds

(d) Six 3-carbon compounds







For the formation on one ATP and one NADPH, the Z-scheme wil

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run:(a) 1 time(b) 2 times(c) 3 times(d) 6 times

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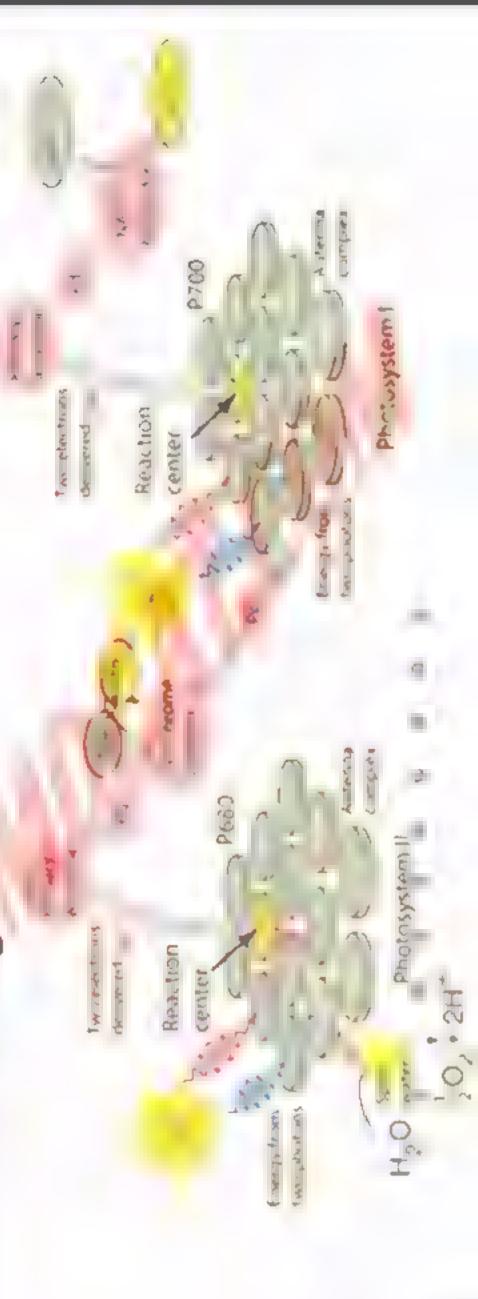
Choose the wrong statement:

(a) PS-I involves in light reactions first and PS-II involves later on

(b) PS-I absorbs photons

(c) Oxygen is not liberated in PS-I

(d) All the statements are wrong







 $\ddot{\mathbf{C}}$



All of the following are involved in both cyclic and non-cyclic photophosphorylation except:

(a) Plastocyanin

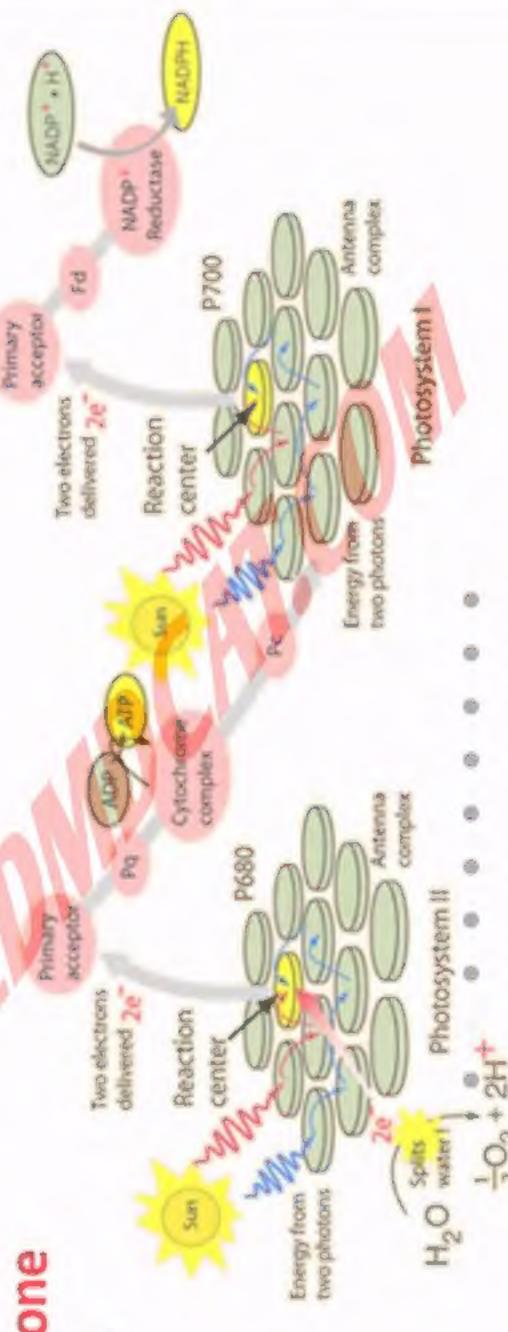
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(b) Photosystem I

(c) Plastoquinone

 \bigcirc

(d) Ferredoxin





During chemiosmosis of photosynthesis, the pumping of protons is:

(a) Across outer membrane of chloroplast

 $\ddot{\circ}$

(b) Across inner membrane of chloroplast

(c) From stroma to thylakoid lumen

(d) From thylakoid lumen to stroma



The pathway that will produce oxygen during photosynthesis is

(a) Electron transport pathway

 $\ddot{\mathbf{C}}$

(b) Non-cyclic electron pathway

(c) Light-independent reactions

(d) Cyclic electron pathway

